#### INTHEUNITEDSTATESDISTRICTCOURT

## FORTHEEASTERNDISTRICTOFPENNSYLVANIA

Before:BECKER, <u>ChiefCircuitJudge</u>, FULLAMandBARTLE, <u>DistrictJudges</u>.

## OPINIONOFTHECOURT

# May31,2002

# Becker, ChiefCircuitJudge

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# I.PreliminaryStatement

ThiscasechallengesanactofCongressthatmakestheuseoffilteringsoftwareby publiclibrariesaconditionofthereceiptoffederalfunding. TheInternet, as is well known, is avast, interactive medium based on a decentralized network of computers around the world. Its most familiar feature is the World Wide Web (the "Web"), a network of computers known as servers that provide content to users. The Internet provides easy access to anyone who wishest oprovide or distribute information to a world wide audience; it is used by more than 143 million Americans. Indeed, much of the world's knowledge accumulated overcenturies is available to Internet users almost instantly. Approximately 10% of the Americans who use the Internet access it at public libraries. And approximately 95% of all public libraries in the United States provide public access to the Internet.

Whilethebeneficial effect of the Internetinex panding the amount of information available to its users is self-evident, its lowentry barriers have also led to aperverse result—facilitation of the wides pread dissemination of hard core pornography within the easy reach not only of adults who have every right to access it (so long as it is not legally obscene or child pornography), but also of children and adolescents to who mit may be quite harmful. The volume of pornography on the Internetishuge, and the record before us demonstrates that public library patrons of all ages, many from ages 11 to 15, have regularly sought to access it in public library settings. The rear emore than 100,000

pornographicWebsitesthatcanbeaccessedforfreeandwithoutprovidingany registrationinformation, and tensofthousands of Websites contain childpornography.

Librarieshavereactedtothissituationbyutilizinganumberofmeansdesignedto insurethatpatronsavoidillegal(andunwanted)contentwhilealsoenablingpatronsto findthecontenttheydesire. Somelibraries have trained patrons in how to use the Internetwhileavoidingillegalcontent, or have directed their patrons to "preferred" Web sitesthatlibrarianshavereviewed. Other librarieshave utilized such devices as recessing the computermonitors, installing privacy screens, and monitoring implemented by a "tap ontheshoulder" of patronsperceived to be offending library policy. Still others, viewing theforegoingapproaches as in a dequate or uncomfortable (some librarians do not wish to confrontpatrons), have purchased commercially availables of tware that blocks certain categories of material deemed by the library board as unsuitable for use in their facilities. Indeed,7% of American public libraries useblockings of twarefor adults. Although such programs are somewhat effective in blocking large quantities of pornography, they are bluntinstrumentsthatnotonly"underblock,"i.e.,failtoblockaccesstosubstantial amounts of content that the library boards wish to exclude, but also, central to this litigation, "overblock," i.e., blockaccesstolarge quantities of material that library boards donotwishtoexcludeandthatisconstitutionallyprotected.

Mostofthelibrariesthatusefilteringsoftwareseektoblocksexuallyexplicit speech. Whilemostlibrariesincludeintheirphysicalcollectioncopiesofvolumessuch

as The Joyof Sex and The Joyof Gay Sex , which contain quite explicit photographs and descriptions, filterings of tware blocks large quantities of other, comparable information about health and sexuality that adults and teen agers seek on the Web. One teen ager testified that the Internet access in a public library was the only venue in which she could obtain information important to her about her owns exuality. Another library patron witness described using the Internet to research breast cancer and reconstructive surgery for his mother who had breast surgery. Even though some filtering programs contain exceptions for health and education, the exceptions do not solve the problem of overblocking constitutionally protected material. Moreover, as we explain below, the filterings of tware on which the parties presented evidence in this case overblocks not only information relating to health and sexuality that might be mistaken for pornography or erotica, but also vast numbers of Webpages and sites that could not even arguably be construed as harmful or in appropriate for a dult sor minors.

TheCongress, sharing the concerns of many library boards, enacted the Children's Internet Protection Act ("CIPA"), Pub. L. No. 106-554, which makes the use of filters by a public library acondition of its receipt of two kinds of subsidies that are important (or even critical) to the budgets of many public libraries—grant sunder the Library Services and Technology Act, 20 U.S.C. § 9101 etseq. ("LSTA"), and so-called "E-rated is counts" for Internet access and support under the Telecommunications Act, 47 U.S.C. § 254. LSTA grant funds are awarded, interalia, in order to: (1) assist libraries in accessing

informationthroughelectronicnetworks,and(2)providetargetedlibraryandinformation servicestopersonshavingdifficultyusingalibraryandtounderservedandrural communities,includingchildrenfromfamilieswithincomesbelowthepovertyline. E-ratediscountsservethesimilarpurposeofextendingInternetaccesstoschoolsand librariesinlow-incomecommunities. CIPArequiresthatlibraries, inordertoreceive LSTAfundsorE-ratediscounts, certifythattheyareusinga "technologyprotection measure" that prevents patrons from accessing "visual depictions" that are "obscene," "childpornography," or in the case of minors, "harmfultominors." 20U.S.C. § 9134(f)(1)(A)(LSTA); 47U.S.C. § 254(h)(6)(B) & (C)(E-rate).

Theplaintiffs,agroupoflibraries,libraryassociations,librarypatrons,andWeb sitepublishers,broughtthissuitagainsttheUnitedStatesandothersallegingthatCIPAis faciallyunconstitutional because:(1)itinducespubliclibrariestoviolatetheirpatrons' FirstAmendmentrightscontrarytotherequirementsof SouthDakotav.Dole ,483U.S. 203(1987);and(2)itrequireslibrariestorelinquishtheirFirstAmendmentrightsasa conditiononthereceiptoffederalfundsandisthereforeimpermissibleunderthedoctrine ofunconstitutionalconditions. InarguingthatCIPAwillinducepubliclibrariesto violatetheFirstAmendment,theplaintiffscontendthatgiventhelimitsofthefiltering technology,CIPA'sconditionseffectivelyrequirelibrariestoimposecontent-based restrictionsontheirpatrons'accesstoconstitutionallyprotectedspeech.Accordingto theplaintiffs,thesecontent-basedrestrictionsaresubjecttostrictscrutinyunderpublic

forumdoctrine, see Rosenbergerv.Rector&VisitorsofUniv.ofVa. ,515U.S.819,837 (1995),andarethereforepermissibleonlyiftheyarenarrowlytailoredtofurthera compellingstateinterestandnolessrestrictivealternativeswouldfurtherthatinterest, see Renov.ACLU ,521U.S.844,874(1997). ¹ ThegovernmentrespondsthatCIPAwill notinducepubliclibrariestoviolatetheFirstAmendment,sinceitispossibleforatleast somepubliclibrariestoconstitutionallycomplywithCIPA'sconditions.Evenifsome libraries'useoffiltersmightviolatetheFirstAmendment,thegovernmentsubmitsthat CIPAcanbefaciallyinvalidatedonlyifitisimpossibleforanypubliclibrarytocomply withitsconditionswithoutviolatingtheFirstAmendment.

PursuanttoCIPA,athree-judgeCourtwasconvenedtotrytheissues.Pub.L.No. 106-554. Followinganintensiveperiodofdiscoveryonanexpeditedscheduletoallow publiclibrariestoknowwhethertheyneedtocertifycompliancewithCIPAbyJuly1, 2002,toreceivesubsidiesfortheupcomingyear,theCourtconductedaneight-daytrialat whichweheard20witnesses,andreceivednumerousdepositions,stipulationsand

<sup>&</sup>lt;sup>1</sup>Plaintiffsadvancethreeotheralternative,independentgroundsforholdingCIPA faciallyinvalid.First,theysubmitthatevenifCIPAwillnotinducepubliclibrariesto violatetheFirstAmendment,CIPAnonethelessimposesanunconstitutionalconditionon publiclibrariesbyrequiringthemtorelinquishtheirownFirstAmendmentrightsto provideunfilteredInternetaccessasaconditionontheirreceiptoffederalfunds. *See infran*.36.Second,plaintiffscontendthatCIPAisfaciallyinvalidbecauseiteffectsan impermissiblepriorrestraintonspeechbygrantingfilteringcompaniesandlibrarystaff unfettereddiscretiontosuppressspeechbeforeithasbeenreceivedbylibrarypatronsand beforeithasbeensubjecttoajudicialdeterminationthatitisunprotectedundertheFirst Amendment. *See SoutheasternPromotions,Ltd.v.Conrad* ,420U.S.546,558(1975). Finally,plaintiffssubmitthatCIPAisunconstitutionallyvague. *See CityofChicagov. Morales*,527U.S.41(1999).

documents. The principal focus of the trial was on the capacity of currently available filtering software. The plaintiffs adduced substantial evidence not only that filtering programs baraccess to a substantial amount of speech on the Internet that is clearly constitutionally protected for adults and minors, but also that these programs are intrinsically unable to block only illegal Internet content while simultaneously allowing access to all protected speech.

Asourextensivefindingsoffactreflect, the plaintiffs demonstrated that thousands of Webpages containing protected speecharewrongly blocked by the four leading filtering programs, and these pages represent only a fraction of Webpages wrongly blocked by the programs. The plaintiffs' evidence explained that the problems faced by the manufacturers and vendors of filterings of tware are legion. The Webisex tremely dynamic, with an estimated 1.5 millionnew pages added every day and the contents of existing Webpages changing very rapidly. The category lists maintained by the blocking programs are considered to be proprietary information, and hence are unavailable to customers or the general public for review, so that public libraries that select categories when implementing filterings of twared on otreally know what they are blocking.

Therearemanyreasonswhyfilteringsoftwaresuffersfromextensiveover-and underblocking, which we will explain belowing reat detail. They center on the limitations on filtering companies' ability to: (1) accurately collect Webpages that potentially fall into a blocked category (e.g., pornography); (2) review and categorize

Webpagesthattheyhavecollected;and(3)engageinregularre-reviewofWebpages thattheyhavepreviouslyreviewed. Thesefailuresspringfromconstraintsonthe technologyofautomatedclassificationsystems, and the limitations inherent inhuman review, including error, misjudgment, and scarceresources, which we describe in detail infra at 58-74. One failure of critical importance is that the automated systems that filtering companies use to collect Webpages for classification are able to sear chonly text, notimages. This is crippling to filtering companies 'a bility to collect pages containing "visual depictions" that are obscene, child pornography, or harmful to minors, as CIPA requires. As will appear, we find that it is currently impossible, given the Internet's size, rate of growth, rate of change, and architecture, and given the state of the artofautomated classification systems, to develop a filter that neither under blocks nor overblocks a substantial amount of speech.

Thegovernment, while acknowledging that the filterings of tware is imperfect, maintains that it is nonetheless quite effective, and that it successfully blocks the vast majority of the Webpages that meet filtering companies' category definitions (e.g., pornography). The government contends that no more is required. In its view, so long as the filterings of tware selected by the libraries screen sout the bulk of the Webpages proscribed by CIPA, the libraries have made are a sonable choice which suffices, under the applicable legal principles, to pass constitutional must er in the context of a facial challenge. Central to the government's position is the analogy it advances between

Internetfilteringandtheinitialdecisionofalibrarytodeterminewhichmaterialsto purchaseforitsprintcollection. Publiclibrarieshave finite budgets and must make choices a stowhether topurchase, for example, booksong ardening or booksong olf. Such content-based decisions, even the plaintiffs concede, are subject to rational basis review and not a stricter form of First Amendments crutiny. In the government's view, the fact that the Internet reverses the acquisition process and requires the libraries to, in effect, purchase the entire Internet, some of which (e.g., hard core pornography) it does not want, should not mean that it is chargeable with censorship when it filters out offending material.

Thelegalcontextinwhichthisextensivefactualrecordissetiscomplex, implicating anumber of constitutional doctrines, including the constitutional limitations on Congress's spending clause power, the unconstitutional conditions doctrine, and subsidiary to these issues, the First Amendment doctrines of prior restraint, vagueness, and overbreadth. There are an umber of potential entrypoints into the analysis, but the most logical is the spending clause juris prudence in which the seminal case is South Dakotav. Dole ,483 U.S. 203 (1987). Dole outlines four categories of constraints on Congress's exercise of its power under the Spending Clause, but the only Dole condition disputed here is the four thand last, i.e., whether CIPA requires libraries that receive LSTA funds or E-rate discounts to violate the constitutional rights of their patrons. As will appear, the question is not a simple one, and turns on the level of scrutiny applicable

toapubliclibrary's content-based restrictions on patrons' Internet access. Whether such restrictions are subject to strict scrutiny, as plaintiffs contend, or only rational basis review, as the government contends, depends on public for umdoctrine.

The governmentar guesthat, in providing Internetaccess, public libraries do not create a public forum, since public libraries may reserve the right to exclude certain speakers from a vailing themselves of the forum. Accordingly, the government contends that public libraries' restrictions on patrons' Internetaccess are subject only to rational basis review.

Plaintiffsrespondthatthegovernment's abilitytorestrictspeechonits own property, as in the case of restrictions on Internet accessin public libraries, is not unlimited, and that the more widely the state facilitates the dissemination of private speechina given forum, the more vulnerable the state's decisionistorestrict access to speech in that forum a Weagreewith the plaintiffs that public libraries' content-based restrictions on their patrons' Internet access are subject to stricts crutiny. In providing even filtered Internet access, public libraries create apublic forum open to any speaker around the world to communicate with library patrons via the Internet on a virtually unlimited number of topics. Where the state provides access to a "vast democratic forum []," Renov. ACLU ,521U.S. 844,868 (1997), open to any member of the public to speak on subjects "as diverse a shuman thought," id. at 870 (internal quotation marks and citation omitted), the state's decision selectively to exclude from the forum speech whose

contentthestatedisfavorsissubjecttostrictscrutiny,assuchexclusionsriskdistorting themarketplaceofideasthatthestatehasfacilitated. Application of strictscrutiny finds further support in the extent to which public libraries' provision of Internetaccess uniquely promotes First Amendment values in a manner analogous to traditional public for a such asstreets, sidewalks, and parks, in which content-based restrictions are always subject to strictscrutiny.

Understrictscrutiny, apublic library's use of filterings of tware is permissible only if it is narrowly tailored to further a compelling government interest and no less restrictive alternative would serve that interest. We acknowledge that use of filterings of tware further spublic libraries' legitimate interests in preventing patrons from accessing visual depictions of obscenity, child pornography, or in the case of minors, material harmful to minors. Moreover, use of filters also helps prevent patrons from being unwillingly exposed to patently of fensive, sexually explicit content on the Internet.

Wearesympathetictothepositionofthegovernment, believing that it would be desirable if there were ameans to ensure that public library patrons could share in the informational bonanza of the Internet while being insulated from materials that meet CIPA's definitions, that is, visual depictions that are obscene, child pornography, or in the case of minors, harmful to minors. Unfortunately this outcome, devoutly to be wished, is not available in this less than best of all possible worlds. No category definition used by the blocking programs is identical to the legal definitions of obscenity, child pornography,

ormaterialharmfultominors, and, atallevents, filtering programs fail to block access to a substantial amount of content on the Internet that falls into the categories defined by CIPA. As will appear, we credit the testimony of plaintiffs' expert Dr. Geoffrey Nunberg that the blockings of tware is (at least for the foresee able future) in capable of effectively blocking the majority of materials in the categories defined by CIPA without overblocking a substantial amount of materials. Nunberg's analysis was supported by extensive recordevidence. As noted above, this in a bility to prevent both substantial amounts of underblocking and overblocking stems from several sources, including limitations on the technology that software filtering companies use togather and review Webpages, limitations on resources for human review of Webpages, and the necessary error that results from human review processes.

BecausethefilteringsoftwaremandatedbyCIPAwillblockaccesstosubstantial amountsofconstitutionallyprotectedspeechwhosesuppressionservesnolegitimate governmentinterest, wearepersuaded that apublic library's use of software filters is not narrowly tailored to further any of these interests. Moreover, less restrictive alternatives exist that further the government's legitimate interest in preventing the dissemination of obscenity, childpornography, and material harmful to minors, and in preventing patrons from being unwillingly exposed to patently offensive, sexually explicit content. To prevent patrons from accessing visual depictions that are obscene and childpornography, public libraries may enforce Internet use policies that make clear to patrons that the

library's Internetterminals may not be used to accessillegal speech. Libraries may then impose penalties on patrons who violate these policies, ranging from a warning to notification of lawen forcement, in the appropriate case. Less restrictive alternatives to filtering that further libraries' interest in preventing minors from exposure to visual depictions that are harmful to minors include requiring parental consent to or presence during unfiltered access, or restricting minors' unfiltered access to terminals with inview of library staff. Finally, optional filtering, privacy screens, recessed monitors, and placement of unfiltered Internet terminals out side of sight-lines provide less restrictive alternatives for libraries to prevent patrons from being unwillingly exposed to sexually explicit content on the Internet.

In an effort to avoid the potentially fatallegal implications of the overblocking problem, the government falls back on the ability of the libraries, under CIPA's disabling provisions, \$see CIPA \$1712 (codified at 20 U.S.C. \$9134(f)(3)) , CIPA \$1721(b) (codified at 47 U.S.C. \$254(h)(6)(D)), to unblock as it ethat is patently proper yet improperly blocked. The evidence reflects that libraries can and do unblock the filters when a patrons or equests. But it also reflects that requiring library patrons to ask for a Website to be unblocked will determany patrons be cause they are embarrassed, or desire to protect their privacy or remain a nonymous. Moreover, the unblocking may take days, and may be unavailable, especially in branch libraries, which are of ten less well staffed than main libraries. Accordingly, CIPA's disabling provisions do not cure the

constitutional deficiencies in public libraries' use of Internet filters.

Underthese circumstances we are constrained to conclude that the library plaint if if smust prevail in their content ion that CIPA requires them to violate the First Amendment rights of their patrons, and accordingly is facially invalid, even under the standard urged on us by the government, which would permit us to facially invalidate CIPA only if it is impossible for a single public library to comply with CIPA's conditions without violating the First Amendment. Inview of the limitations inherent in the filtering technology mandated by CIPA, any public library that adheresto CIPA's conditions will necessarily restrict patrons' access to a substantial amount of protected speech, in violation of the First Amendment. Given this conclusion, we need not reach plaint iffs' arguments that CIPA effects a prior restraint on speech and is unconstitutionally vague. Nor dowed ecide their cognate unconstitutional conditions theory, though for reasons explained in fra at note 36, we discuss the issues raised by that claim at some length.

Forthesereasons, we will enter an Order declaring Sections 1712(a)(2) and 1721(b) of the Children's Internet Protection Act, codified at 20 U.S.C. § 9134(f) and 47 U.S.C. § 254(h)(6), respectively, to be facially invalid under the First Amendment and permanently enjoining the defendants from enforcing those provisions.

#### **FindingsofFact**

#### **A.StatutoryFramework**

## 1. Nature and Operation of the E-rate and LSTAP rogram

IntheTelecommunicationsActof1996("1996Act"),Congressdirectedthe

FederalCommunicationsCommission("FCC")totakethestepsnecessarytoestablisha

systemofsupportmechanismstoensurethedeliveryofaffordabletelecommunications

servicetoallAmericans.Thissystem,referredtoas "universalservice,"iscodifiedin

section254oftheCommunicationsActof1934,asamendedbythe1996Act. See 47

U.S.C.§254.Congressspecifiedseveralgroupsasbeneficiariesoftheuniversalservice

supportmechanism,includingconsumersinhigh-costareas,low-incomeconsumers,

schoolsandlibraries,andruralhealthcareproviders. See 47U.S.C.§254(h)(1).The

extensionofuniversalservicetoschoolsandlibrariesinsection254(h)iscommonly

referredtoastheSchoolsandLibrariesProgram,or"E-rate"Program.

UndertheE-rateProgram, "[a]lltelecommunicationscarriersservingageographic areashall, uponabonafiderequestforanyofitsservicesthatarewithinthedefinition of universalservice..., providesuch services to elementary schools, secondary schools, and libraries for educational purposes at rates less than the amount scharged for similar services to other parties." 47 U.S.C. § 254(h)(1)(B). Under FCC regulations, providers of "interstate telecommunications" (with certain exceptions, see 47 C.F.R. § 54.706(d)), must contribute a portion of their revenue for disbursement amongeligible carriers that are providing services to those groups or are asspecified by Congressin section 254. To be eligible for the discounts, a library must: (1) be eligible for assistance from a State library administrative agency under the Library Services and Technology Act, see in fra;

(2)befundedasanindependententity, completely separate from any schools; and (3) not be operating as a for-profit business. See 47 C.F.R. § 54.501(c). Discounts on services for eligible libraries are set as a percentage of the pre-discount price, and range from 20% to 90%, depending on a library's level of economic disadvantage and its location in an urban or rural area. See 47 C.F.R. § 54.505. Currently, a library's level of economic disadvantage is based on the percentage of students eligible for the national school lunch program in the school district in which the library is located.

TheLibraryServicesandTechnologyAct("LSTA"),SubchapterIIoftheMuseum andLibraryServicesAct,20U.S.C.§9101 etseq. ,wasenactedbyCongressin1996as partoftheOmnibusConsolidatedAppropriationsActof1997,Pub.L.No.104-208.The LSTAestablishesthreegrantprogramstoachievethegoalofimprovinglibraryservices acrossthenation.UndertheGrantstoStatesProgram,LSTAgrantfundsareawarded, interalia ,inordertoassistlibrariesinaccessinginformationthroughelectronicnetworks andpayforthecostsofacquiringorsharingcomputersystemsandtelecommunications technologies. See 20U.S.C.§9141(a).ThroughtheGrantstoStatesprogram,LSTA fundshavebeenusedtoacquireandpaycostsassociatedwithInternet-accessible computerslocatedinlibraries.

#### 2.CIPA

The Children's Internet Protection Act ("CIPA") was enacted as part of the Consolidated Appropriations Act of 2001, which consolidated and enacted several

appropriationsbills,includingtheMiscellaneousAppropriationsAct,ofwhichCIPAwas apart. SeePub.L.No.106-554 .CIPAaddressesthreedistincttypesoffederalfunding programs:(1)aidtoelementaryandsecondaryschoolspursuanttoTitleIIIofthe ElementaryandSecondaryEducationActof1965, seeCIPA§1711(amendingTitle20 toadd§3601);(2)LSTAgrantstostatesforsupportoflibraries, seeCIPA§1712 (amendingtheMuseumandLibraryServicesAct,20U.S.C.§9134);and(3)discounts undertheE-rateprogram, seeCIPA§1721(a)&(b)(bothamendingtheCommunications Actof1934,47U.S.C.§254(h)).Onlysections1712and1721(b)ofCIPA,whichapply tolibraries,areatissueinthiscase.

Asexplainedinmoredetailbelow,CIPArequireslibrariesthatparticipateinthe LSTAandE-rateprogramstocertifythattheyareusingsoftwarefiltersontheir computerstoprotectagainstvisualdepictionsthatareobscene,childpornography,orin thecaseofminors,harmfultominors.CIPApermitslibraryofficialstodisablethefilters forpatronsforbonafideresearchorotherlawfulpurposes,butdisablingisnotpermitted forminorpatronsifthelibraryreceivesE-ratediscounts.

#### a.CIPA'sAmendmentstotheE-rateProgram

Section 1721 (b) of CIPA imposes conditions on a library 'sparticipation in the E-rate program. A library 'having one or more computers with Internet access may not receive services at discount rates," CIPA § 1721 (b) (codified at 47 U.S.C.§ <math display="block">254 (h) (6) (A) (i), unless the library certifies that it is "enforcing a policy of Internets a fety

thatincludestheoperationofatechnologyprotectionmeasurewithrespecttoanyofits computerswithInternetaccessthatprotectsagainstaccessthroughsuchcomputersto visualdepictionsthatare—(I)obscene;(II)childpornography;or(III)harmfulto minors,"andthatitis"enforcingtheoperationofsuchtechnologyprotectionmeasure duringanyuseofsuchcomputersbyminors."CIPA§1721(b)(codifiedat47U.S.C.§ 254(h)(6)(B)). CIPAdefinesa "technologyprotectionmeasure" as "aspecific

anypicture,image,graphicimagefile,orothervisualdepictionthat—(i) takenasawholeandwithrespecttominors,appealstoaprurientinterestin nudity,sex,orexcretion;(ii)depicts,describes,orrepresents,inapatently offensivewaywithrespecttowhatissuitableforminors,anactualor simulatedsexualactorsexualcontact,actualorsimulatednormalor pervertedsexualacts,oralewdexhibitionofthegenitals;and(iii)takenas awhole,lacksseriousliterary,artistic,political,orscientificvalueasto minors.

CIPA§1721(c)(codifiedat47U.S.C.§254(h)(7)(G)).

CIPA prohibits federal interference in local determinations regarding what Internet content is appropriate forminors:

Adeterminationregardingwhatmatterisappropriateforminorsshallbe madebytheschoolboard,localeducationalagency,libraryorother authorityresponsibleformakingthedetermination.Noagencyor instrumentalityoftheUnitedStatesGovernmentmay—(A)establish criteriaformakingsuchdetermination;(B)reviewthedeterminationmade bythecertifying[entity]...;or(C)considerthecriteriaemployedbythe certifying[entity]...intheadministrationofsubsection(h)(1)(B).

CIPA§1732(codifiedat47U.S.C.§254(1)(2)).

<sup>&</sup>lt;sup>2</sup>CIPAdefines"[m]inor"as"anyindividualwhohasnotattainedtheageof17years." CIPA§1721(c)(codifiedat47U.S.C.§254(h)(7)(D)).CIPAfurtherprovidesthat "[o]bscene"hasthemeaninggivenin18U.S.C.§1460,and"childpornography"hasthe meaninggivenin18U.S.C.§2256.CIPA§1721(c)(codifiedat47U.S.C.§254(h)(7)(E)&(F)).CIPAdefinesmaterialthatis"harmfultominors"as:

technologythatblocksorfiltersaccesstovisualdepictionsthatareobscene,...child pornography,...orharmfultominors."CIPA§1703(b)(1)(codifiedat47U.S.C.§ 254(h)(7)(I)).

ToreceiveE-ratediscounts, alibrarymustals ocertify that filterings of tware is in operation during adultuse of the Internet. More specifically, with respect to adults, a librarymust certify that it is "enforcing apolicy of Internets a fety that includes the operation of a technology protection measure with respect to any of its computers with Internet access that protects against access through such computers to visual depictions that are—(I) obscene; or (II) child pornography, "and that it is "enforcing the operation of such technology protection measured uring any use of such computers." CIPA § 1721(b) (codified at 47 U.S.C. § 254(h)(6)(C)). Interpreting the statutory terms "any use," the FCC has concluded that "CIPA makes no distinction between computers used on lyby staff and those accessible to the public." In reFederal-State Joint Board on Universal Service: Children's Internet Protection Act , CCD ocket No. 96-45, Report and Order, FCC 01-120, ¶30 (Apr. 5, 2001).

WithrespecttolibrariesreceivingE-ratediscounts,CIPAfurtherspecifiesthat "[a]nadministrator,supervisor,orotherpersonauthorizedbythecertifyingauthority... maydisablethetechnologyprotectionmeasureconcerned,duringusebyanadult,to enableaccessforbonafideresearchorotherlawfulpurpose."CIPA§1721(b)(codified at47U.S.C.§254(h)(6)(D)).

#### b. CIPA's Amendment stothe LSTAP rogram

Section1712ofCIPAamendstheMuseumandLibraryServicesAct(20U.S.C.§ 9134(f))toprovidethatnofundsmadeavailableundertheAct"maybeusedtopurchase computersusedtoaccesstheInternet,ortopayfordirectcostsassociatedwithaccessing theInternet,"unlesssuchlibrary"hasinplace"andisenforcing"apolicyofInternet safetythatincludestheoperationofatechnologyprotectionmeasurewithrespecttoany ofitscomputerswithInternetaccessthatprotectsagainstaccessthroughsuchcomputers tovisualdepictions"thatare"obscene"or"childpornography,"and,whenthecomputers areinusebyminors,alsoprotectsagainstaccesstovisualdepictionsthatare"harmfulto minors."CIPA§1712(codifiedat20U.S.C.§9134(f)(1)). Section1712contains definitionsof technologyprotectionmeasure,""obscene,""childpornography,"and "harmfultominors,"thataresubstantiallysimilartothosefoundintheprovisions governingtheE-rateprogram.CIPA§1712(codifiedat20U.S.C.§9134(f)(7)); see also supranote2.

AsundertheE-rateprogram, "anadministrator, supervisororotherauthoritymay disableatechnologyprotectionmeasure...toenableaccessforbonafideresearchor otherlawfulpurposes." CIPA§1712(codifiedat20U.S.C.§9134(f)(3)). Whereas CIPA's amendments to the E-rate program permit disabling for bonafideresearchor other lawfulpurposes only during a dultuse, the LSTA provision permits disabling for both adults and minors.

#### **B.IdentityofthePlaintiffs**

# 1.LibraryandLibraryAssociationPlaintiffs

PlaintiffsAmericanLibraryAssociation,AlaskaLibraryAssociation,California LibraryAssociation,ConnecticutLibraryAssociation,FreedomtoReadFoundation, MaineLibraryAssociation,NewEnglandLibraryAssociation,NewYorkLibrary Association,andWisconsinLibraryAssociationarenon-profitorganizationswhose membersincludepubliclibrariesthatreceiveeitherE-ratediscountsorLSTAfundsfor theprovisionofInternetaccess.Becauseitisaprerequisitetoassociationalstanding,we notethattheintereststhattheseorganizationsseektoprotectinthislitigationarecentral totheir raisond'être.

PlaintiffsFortVancouverRegionalLibraryDistrict,insouthwestWashington state;MultnomahCountyPublicLibrary,inMultnomahCounty,Oregon;NorfolkPublic LibrarySystem,inNorfolk,Virginia;SantaCruzPublicLibraryJointPowersAuthority, inSantaCruz,California;SouthCentralLibrarySystem("SCLS"),centeredinMadison, Wisconsin;andtheWestchesterLibrarySystem,inWestchesterCounty,NewYork,are publiclibrarysystemswithbranchofficesintheirrespectivelocalitiesthatprovide Internetaccesstotheirpatrons.

TheFortVancouverRegionalLibraryDistrict,foroverthreeyearsfrom1999-2001,received\$135,000inLSTAgrantsand\$19,500inE-ratediscountsforInternet access.TheMultnomahCountyPublicLibraryreceived\$70,000inE-ratediscountsfor

Internetaccessthisyear, and has applied for \$100,000 in E-rated is counts for the upcoming year. The Norfolk Public Library System received \$90,000 in E-rated is counts for Internetaccess this year, and has received \$200,000 LSTA grant to put computer labsine ight of its libraries. The Santa Cruz Public Library Joint Powers Authority received \$20,560 in E-rated is counts for Internetaccess in 2001-02. The SCL Sreceived between \$3,000 and \$5,000 this year in E-rated is counts for Internetaccess.

TheFortVancouverRegionalLibraryDistrictBoardisapublicboardwhose membersareappointedbyelectedcountycommissioners. TheMultnomahCounty Libraryisacountydepartment, whoseboardisappointedbythecountychairand confirmedbytheothercommissioners. TheSCLSisanaggregationof51independently governedstatutorymemberpubliclibraries, whoserelationshiptoSCLSisdefinedby statelaw. ThegoverningbodyoftheSCLSistheLibraryBoardofTrustees, which consistsof20membersnominatedbycountyexecutivesandratifiedbycountyboardsof supervisors.

#### 2.PatronandPatronAssociationPlaintiffs

PlaintiffsAssociationofCommunityOrganizationsforReformNow,Friendsof thePhiladelphiaCityInstituteLibrary,andthePennsylvaniaAllianceforDemocracyare nonprofitorganizationswhosemembersincludeindividualswhoaccesstheInternetat publiclibrariesthatreceiveE-ratediscountsorLSTAfundsfortheprovisionofpublic Internetaccess.Wenoteforthepurposeofassociationalstandingthattheintereststhat

these organizations seek to protect in this litigation are german et other purposes.

PlaintiffsEmmalynRood,MarkBrown,ElizabethHrenda,C.DonaldWeinberg, SherronDixon,byherfatherandnextfriendGordonDixon,JamesGeringer,Marnique TyneshaOverby,byhernextfriendCarolynC.Williams,WilliamJ.Rosenbaum,Carolyn C.Williams,andQuianaWilliams,byhermotherandnextfriendSharonBernard,are adultsandminorswhousetheInternetatpubliclibrariesthat,tothebestoftheir knowledge,donotfilterpatrons'accesstotheInternet.Severaloftheseplaintiffsdonot haveInternetaccessfromhome.

EmmalynRoodisasixteen-year-oldwhousestheMultnomahCountyPublicLibrary. Whenshewas13, sheusedtheInternetattheMultnomahCountyPublicLibrary toresearchissuesrelatingtohersexualidentity. Ms. Rooddidnotuseherhomeor schoolcomputerforthisresearch, inpartbecauseshewishedhersearchingtobeprivate. Althoughthelibraryofferedpatronstheoptionofusingfilteringsoftware, Ms. Rooddid notusethatoptionbecauseshehadhadpreviousexperiencewithsuchprogramsblocking informationthatwasvaluabletoher, including information relating to gayandlesbian issues.

PlaintiffMarkBrownusedtheInternetatthePhiladelphiaFreeLibrarytoresearch breastcancerandreconstructivesurgeryforhismotherwhohadbreastsurgery.Mr.

Brown'sresearchatthelibraryprovidedhimandhismotherwithessentialinformation abouthismother'smedicalconditionandpotentialtreatments.

#### 3. WebPublisherPlaintiffs

PlaintiffAfraidtoAsk,Inc.,basedinSaunderstown,RhodeIsland,publishesa healtheducationWebsite,www.AfraidtoAsk.com.Dr.JonathanBertman,thepresident andmedicaldirectorofAfraidtoAsk,isafamilypracticephysicianinruralRhodeIsland andaclinicalassistantprofessoroffamilymedicineatBrownUniversity.

AfraidtoAsk.com'smissionistoprovidedetailedinformationonsensitivehealthissues, oftenofasexualnature,suchassexuallytransmitteddiseases,maleandfemalegenitalia, andbirthcontrol,soughtbypeopleofallageswhowouldprefertolearnaboutsensitive healthissuesanonymously,i.e.,theyare"afraidtoask."Aspartofitseducational mission,AfraidtoAsk.comoftenusesgraphicimagesofsexualanatomytoconvey information.Itsprimaryaudienceisteensandyoungadults.Basedonsurveydata collectedonthesite,halfofthepeoplevisitingthesiteareunder24yearsoldanda quarterareunder18.AfraidtoAsk.comisblockedbyseveralleadingblockingproducts ascontainingsexuallyexplicitcontent.

PlaintiffAlanGuttmacherInstitutehasaWebsitethatcontainsinformationabout itsactivitiesandobjectives,includingitsmissiontoprotectthereproductivechoicesof womenandmen.PlaintiffPlannedParenthoodFederationofAmerica,Inc.("Planned Parenthood")isanationalvoluntaryorganizationinthefieldofreproductivehealthcare. PlannedParenthoodownsandoperatesseveralWebsitesthatprovidearangeof informationaboutreproductivehealth,fromcontraceptiontopreventionofsexually

 $transmitted diseases, to finding an abortion provider, and to information about the drug \\ Mifepristone. Plaint iff Safers ex. or gisa Website that of fers free educational information on how to practices a fersex.$ 

PlaintiffEthanInteractive,Inc.,d/b/aOutInAmerica,isanonlinecontent providerthatownsandoperates64freeWebsitesforgay,lesbian,bisexualand transgenderedpersonsworldwide.PlaintiffPlanetOutCorporationisanonlinecontent providerforgay,lesbian,bisexualandtransgenderedpersons.PlaintifftheNaturist ActionCommittee("NAC")isthenonprofitpoliticalarmoftheNaturistSociety,a privateorganizationthatpromotesawayoflifecharacterizedbythepracticeofnudity. TheNACWebsiteprovidesinformationaboutNaturistSocietyactivitiesandaboutstate andlocallawsthatmayaffecttherightsofNaturistsortheirabilitytopracticeNaturism, andincludesnudephotographsofitsmembers.

PlaintiffWayneL.ParkerwastheLibertariancandidateinthe2000U.S.

CongressionalelectionfortheFifthDistrictofMississippi(andisrunningagainin2002).

HepublishesaWebsitethatcommunicatesinformationabouthiscampaignandthat providesinformationabouthispoliticalviewsandtheLibertarianPartytothepublic.

PlaintiffJeffreyPollockwastheRepublicancandidateinthe2000U.S.Congressional electionfortheThirdDistrictofOregon.HeoperatesaWebsitethatisnowpromoting hiscandidacyforCongressin2002.

 $<sup>^3</sup>$ The government challenges the standing of several of the plaint if fs and the ripeness of their claims. These include all of the Website publishers and all of the individual

#### C.TheInternet

## 1.Background

Aswenotedattheoutset,theInternetisavast,interactivemediumconsistingofa decentralizednetworkofcomputersaroundtheworld. TheInternetpresents lowentry barriers to anyone who wishest oprovide or distribute information. Unlike television, cable, radio, newspapers, magazine sorbooks, the Internet provides an opportunity for those with access to it to communicate with a worldwide audience at little cost. At least 400 million people use the Internet worldwide, and approximately 143 million Americans were using the Internet as of September 2001. Nat'l Telecomm. & Info. Admin., A Nation Online: How Americans Are Expanding Their Use of the Internet (February 2002), available at <a href="http://www.ntia.doc.gov/ntiahome/dn/">http://www.ntia.doc.gov/ntiahome/dn/</a>.

The World Wide Webis apart of the Internet that consists of an etwork of computers, called "Webservers," that host "pages" of content accessible via the Hypertext Transfer Protocolor "HTTP." Anyone with a computer connected to the Internet can search for and retrieve information stored on Webservers located around the

librarypatrons.Notwithstandingtheseobjections, wear econfident that the "case or controversy" requirement of Article III, §20fthe Constitution is met by the existence of the plaint iff libraries that qualify for LSTA and E-rate funding and the library associations who seemembers qualify for such funding. The seplaint iff sare faced with the impending choice of either certifying compliance with CIPA by July 1,2002, or foregoing subsidies under the LSTA and E-rate programs, and therefore clearly have standing to challenge the constitutionality of the conditions to which they will be subject should they accept the subsidies. We also note that the presence of the Website publishers and individual library patrons does not affect our legal analysis or disposition of the case.

world. Computer users typically access the Webbyrunning approgram called a "browser" on their computers. The browser displays, as individual pages on the computers creen, the various types of content found on the Webandlets the user follow the connections built into Webpages—called "hypertext links," "hyperlinks," or "links"—to additional content. Two popular browsers are Microsoft Internet Explorer and Netscape Navigator.

A"Webpage"isoneormorefilesabrowsergraphicallyassemblestomakea viewablewholewhenauserrequestscontentovertheInternet.AWebpagemaycontain avarietyofdifferentelements,includingtext,images,buttons,formfieldsthattheuser canfillin,andlinkstootherWebpages.A"Website"isatermthatcanbeusedin severaldifferentways.Itmayrefertoallofthepagesandresourcesavailableona particularWebserver.Itmayalsorefertoallthepagesandresourcesassociatedwitha particularorganization,companyorperson,evenifthesearelocatedondifferentservers, orinasubdirectoryonasingleserversharedwithother,unrelatedsites.Typically,aWeb sitehasasanintendedpointofentry,a"homepage,"whichincludeslinkstootherpages onthesameWebsiteortopagesonothersites.Onlinediscussiongroupsandchatrooms relatingtoavarietyofsubjectsareavailablethroughmanyWebsites.

 $Users may find content on the Webusing engines that search for requested \\ keywords. In response to a keyword request, a search engine will display a list of Web sites that may contain relevant content and provide links to those sites. Search engines and directories of ten returnal imited number of sites in their search results (e.g., the$ 

Googlesearchenginewillreturnonly2,000sitesinresponsetoasearch, evenifithas found, for example,530,000sitesinits index that meet these archeriteria).

AusermayalsoaccesscontentontheWebbytypingaURL(UniformResource Locator)intotheaddresslineofthebrowser.AURLisanaddressthatpointstosome resourcelocatedonaWebserverthatisaccessibleovertheInternet.Thisresourcemay beaWebsite,aWebpage,animage,asoundorvideofile,orotherresource.AURL canbeeitheranumericInternetProtocolor"IP"address,oranalphanumeric"domain name"address.EveryWebserverconnectedtotheInternetisassignedanIPaddress.A typicalIPaddresslookslike"13.1.64.14."TypingtheURL" <a href="http://13.1.64.14/">http://13.1.64.14/</a>"intoa browserwillbringtheusertotheWebserverthatcorrespondstothataddress.For convenience,mostWebservershavealphanumericdomainnameaddressesinadditionto IPaddresses.Forexample,typingin" <a href="http://www.paed.uscourts.gov">http://www.paed.uscourts.gov</a>"willbringtheuser tothesameWebserverastypingin" <a href="http://204.170.64.143.">http://www.paed.uscourts.gov</a>"willbringtheuser

EverytimeauserattemptstoaccessmateriallocatedonaWebserverbyenteringa domainnameaddressintoaWebbrowser,arequestismadetoaDomainNameServer, whichisadirectoryofdomainnamesandIPaddresses,to"resolve,"ortranslate,the domainnameaddressintoanIPaddress.ThatIPaddressisthenusedtolocatetheWeb serverfromwhichcontentisbeingrequested.AWebsitemaybeaccessedbyusing eitheritsdomainnameaddressoritsIPaddress.

Adomainnameaddresstypicallyconsistsofseveralparts. For example, the

alphanumericURL <a href="http://www.paed.uscourts.gov/documents/opinions">http://www.paed.uscourts.gov/documents/opinions</a> canbebroken downintothreeparts. The first partist het ransfer protocol the computer will use in accessing the content (e.g., "http" for Hypertext Transfer Protocol); next is the name of the host server on which the information is stored (e.g., <a href="www.paed.uscourts.gov">www.paed.uscourts.gov</a>); and then the name of the particular file or directory on that server (e.g., <a href="//documents/opinions">/documents/opinions</a>).

AsingleWebpagemaybeassociatedwithmorethanoneURL.Forexample,the

URLs <a href="http://www.newyorktimes.com">http://www.nytimes.com</a>willbothtaketheuser

tothe <a href="http://www.newyorktimes.com">newYorkTimes</a> homepage.ThetopmostdirectoryinaWebsiteisoftenreferred

toasthatWebsite'srootdirectoryorrootURL.Forexample,in

<a href="http://www.paed.uscourts.gov/documents">http://www.paed.uscourts.gov/documents</a>,therootURLis <a href="http://www.paed.uscourts.gov">http://www.paed.uscourts.gov</a>.

TheremaybehundredsorthousandsofpagesunderasinglerootURL,ortheremaybe

oneoronlyafew.

ThereareanumberofWebhostingcompaniesthatmaintainWebsitesforother

businessesandindividuals,whichcanleadtovastamountsofdiversecontentbeing

locatedatthesameIPaddress.Hostingservicesareofferedeitherforafee,orinsome

cases,forfree,allowinganyindividualwithInternetaccesstocreateaWebsite.Some

hostingservicesareprovidedthroughtheprocessof"IP-basedhosting,"whereeach

domainnameisassignedauniqueIPnumber.Forexample, www.baseball.commight

maptotheIPaddress"10.3.5.9"and www.XXX.commightmaptotheIPaddress

"10.0.42.5."Otherhostingservicesareprovidedthroughtheprocessof"name-based

hosting,"wheremultipledomainnameaddressesaremappedtoasingleIPaddress.If thehostingcompanywereusingthismethod,both <a href="www.baseball.com">www.baseball.com</a>and <a href="www.XXX.com">www.baseball.com</a>and <a href="www.XXX.com">www.baseball.com</a>and <a href="www.XXX.com">www.baseball.com</a>and <a href="www.XXX.com">www.baseball.com</a>and <a href="www.axxx.com">www.baseball.com</a>and <a href="www.axxx.com">www.baseball.com</a>and <a href="www.axxx.com">www.baseball.com</a>and <a href="www.axxx.com">www.baseball.com</a>and <a href="www.axxx.com">www.axxx.com</a>couldmaptoasingleIPaddress, e.g., "10.3.5.9." As are sult of the "name-basedhosting" process, uptotensofthous and sof pages with heterogeneous content may share a single IPaddress.

# ${\bf 2. The Indexable Web, the ``Deep Web"; Their Size and Rates of Growth and Change}$

TheuniverseofcontentontheWebthatcouldbeindexed,intheory,bystandard searchenginesisknownasthe"publiclyindexableWeb."ThepubliclyindexableWebis limitedtothosepagesthatareaccessiblebyfollowingalinkfromanotherWebpagethat isrecognizedbyasearchengine.Thislimitationexistsbecauseonlineindexing techniquesusedbypopularsearchenginesanddirectoriessuchasYahoo,Lycosand AltaVista,arebasedon"spidering"technology,whichfindssitestoindexbyfollowing linksfromsitetositeinacontinuoussearchfornewcontent.IfaWebpageorsiteisnot linkedbyothers,thenspideringwillnotdiscoverthatpageorsite.

Furthermore, manylarger Websites containins tructions, through software, that prevents piders from investigating that site, and therefore the contents of such sites also cannot be indexed using spidering technology. Because of the vast size and decentralized structure of the Web, no search engine or directory indexes all of the content on the publicly indexable Web. We credit current estimates that no more than 50% of the content currently on the publicly indexable Webhas been indexed by all search engines

and directories combined. No currently available method or combination of methods for collecting URLs can collect the addresses of all URLs on the Web.

Theportion of the Webthatis not theoretically indexable through the use of "spidering" technology, because other Webpages do not link to it, is called the "Deep Web." Such sites or pages can still be made publicly accessible without being made publicly indexable by, for example, using individual or massemailings (also known as "spam") to distribute the URL to potential readers or customers, or by using types of Web links that cannot be found by spiders but can be seen and used by readers. "Spamming" is a common method of distributing to potential customers links to sexually explicit content that is not indexable.

BecausetheWebisdecentralized,itisimpossibletosayexactlyhowlargeitis.A 2000studyestimatedatotalof7.1millionuniqueWebsites,whichattheWeb's historicalrateofgrowth,wouldhaveincreasedto11millionuniquesitesasofSeptember 2001.EstimatesofthetotalnumberofWebpagesvary,butafigureof2billionisa reasonableestimateofthenumberofWebpagesthatcanbereached,intheory,by standardsearchengines.Weneednotmakeaspecificfindingastoafigure,forbyany measuretheWebisextremelyvast,anditisconstantlygrowing.TheindexableWebis growingatarateofapproximately1.5millionpagesperday.ThesizeoftheunindexableWeb,orthe"DeepWeb,"whileimpossibletodetermineprecisely,isestimated tobetwototentimesthatofthepubliclyindexableWeb.

Inadditiontogrowing rapidly, Webpages and sites are constantly being removed, or changing their content. Websites or pages can change content without changing their domain name addresses or IP addresses. Individual Webpages have an average life span of approximately 90 days.

# ${\bf 3. The Amount of Sexually Explicit Material on the Web}\\$

ThereisavastamountofsexuallyexplicitmaterialavailableviatheInternetand the Web. Sexually explicit material on the Internetise asytoaccess using any public searchengine, suchas, for example, Google or Alta Vista. Althoughmuchofthesexually explicitmaterialavailableontheWebispostedoncommercialsitesthatrequireviewers topayinordertogainaccesstothesite, alargenumber of sexually explicit sites may be accessed for free and without providing any registration information. Most importantly, someWebsitesthatcontainsexuallyexplicitcontenthaveinnocuousdomainnamesand thereforecanbereached accidentally. A commonly cited example is http://www.whitehouse.com.Otherinnocent-soundingURLsthatretrievegraphic, sexually explicit depictions include http://www.boys.com, http://www.girls.com, http://www.coffeebeansupply.com,and http://www.BookstoreUSA.com. Moreover, commercialWebsitesthatcontainsexuallyexplicitmaterialoftenuseatechniqueof attachingpop-upwindowstotheirsites, which open new windows advertising other sexually explicit sites without any prompting by the user. This technique makes it difficult for a user quickly to exit all of the pages containing sexually explicit material,

whether heors he initially accessed such material intentionally or not.

The percentage of Webpages on the indexed Webcontaining sexually explicit content is relatively small. Recent estimates indicate that no more than 1-2% of the content on the Webisporn ographic or sexually explicit. However, the absolute number of Websites of fering free sexually explicit material is extremely large, approximately 100,000 sites.

#### **D.**AmericanPublicLibraries

Themorethan9,000publiclibrariesintheUnitedStatesaretypicallyfunded(at leastinlargepart)bystateorlocalgovernments. Theyarefrequentlyoverseenbyaboard of directors that is either elected or is appointed by an elected of ficial or abody of elected of ficials. We heard testimony from librarians and library board members working in eight public library systems in different communities across the country, some of whom a real soplaint if fis in this case. They hailed from the following library systems: Fort Vancouver, Washington; Fulton Country, Indiana; Green ville, South Carolina; are gional consortium of libraries centered in Madison, Wisconsin; Multnomah Country, Oregon; Norfolk, Virginia; Tacoma, Washington; and Westerville, Ohio. The parties also took depositions from several other librarians and library board members who did not testify during the trial, and submitted an umber of other documents regarding individual libraries' policies.

# ${\bf 1. The Mission of Public Libraries, and Their Reference and Collection}\\ {\bf Development Practices}$

Americanpubliclibrariesoperateinawidevarietyofcommunities, and it is not surprising that they do not all view their mission identically. No rare their practices uniform. Nevertheless, they generally share a common mission—to provide patrons with a widerange of information and ideas.

PubliclibrariesacrossthecountryhaveendorsedtheAmericanLibrary

Association's("ALA")"LibraryBillofRights"and/or"FreedomtoReadStatement,"

includingeverylibrarytestifyingonbehalfofthedefendantsinthiscase. The "Library

BillofRights,"firstadoptedbytheALAin1948,provides,amongotherthings,that

"[b]ooksandotherlibraryresourcesshouldbeprovidedfortheinterest,information,and
enlightenmentofallpeopleofthecommunitythelibraryserves."Italsostatesthat

libraries "shouldprovidematerialsandinformationpresentingallpointsofviewon
currentandhistoricalissues" and that library materials "should not be proscribed or
removed because of partisan or doctrinal disapproval."

The ALA's "Freedom to Read" statement, adopted in 1953 and most recently updated in July 2000, states, among other things, that "[i] tis in the public interest for publishers and librarian stomake available the widest diversity of views and expressions, including those that are unorthodox or unpopular with the majority. "It also states that "[i] tis the responsibility of ... librarians ... to contestence oach ment suponth[e] freedom [to read] by individuals or groups seeking to impose their own standards or tastes upon the community at large."

Publiclibrariesprovideinformationnotonlyforeducationalpurposes, butalsofor recreational, professional, and other purposes. For example, Ginnie Cooper, Director of the Multnomah County Library, testified that some of the library's most popularitems include videotapes of the British Broadcasting Corporation's "Fawlty Towers" series, and also print and "books on tape" versions of science fiction, romance, and mystery novels. Many public libraries includes exually explicit materials in their print collection, such as The Joy of Sex and The Joy of Gay Sex . Very few public libraries, however, collect more graphics exually explicit materials, such as XXX-rated videos, or Hustler magazine. 4

Themissionofpubliclibrariansistoprovidetheirpatronswithawidearrayof information, and they surely do so. Reference librarians across Americaans wermore than 7 million questions weekly. If a patron has a specialized need for information not available in the public library, the professional librarian will use a reference interview to find out what information is needed to help the user, including the purpose for which an item will be used. Reference librarians are trained to assist patrons without judging the patron's purpose in seeking information, or the content of the information that the patron is seeking.

<sup>&</sup>lt;sup>4</sup>TheOCLCdatabase,acooperativecatalogingserviceestablishedtofacilitate interlibraryloanrequests,includes40millioncatalogrecordsfromapproximately48,000 librariesofalltypesworldwide.Slightlymorethan400ofthelibrariesintheOCLC databasearelistedascarrying *Playboy*intheircollections,whileonlyeightsubscribeto *Hustler*.

Manypublic libraries routinely provide patrons with access to materials not in their collections through the use of bibliographic access to ols and interlibrary loan programs. Public libraries typically will assist patrons in obtaining access to all materials except those that are illegal, even if they do not collect those materials in their physical collection. In order to provide this access, a librarian may attempt to find material not included in the library's own collection in other libraries in the system, through interlibrary loan, or through a referral, perhaps to a government agency or a commercial books to re. Interlibrary loan is expensive, however, and is the refore used in frequently.

Publiclibrariansalsoapplyprofessionalstandardstotheircollectiondevelopment practices. Publiclibraries generally makematerial selection decisions and frame policies governing collection development at the local level. Collection development is a key subject in the curricula of Masters of Library Science programs and is defined by certain practices. In general, professional standards guide public librarian stobuild, develop and create collections that have certain characteristics, such as balance in its coverage and requisite and appropriate quality. To this end, the goal of library collections is not universal coverage, but rather to find those materials that would be of the greatest direct benefitor interest to the community. In making selection decisions, librarians consider criteria including the content of the material, its accuracy, the title's niche in relation to the rest of the collection, the authority of the author, the publisher, the work's presentation, and how it compares with other material available in the same genre or on

thesamesubject.

Inpursuing the goal of achieving abalanced collection that serves the needs and interests of their patrons, librarians generally have a fair amount of autonomy, but may also beguided by a library's collection development policy. The secollection development policies are of tendra wnup in conjunction with the libraries' governing boards and with representatives from the community, and may be the result of public hearings, discussions and other input.

Althoughmanylibrariansuseselectionaids, suchas review journals and bibliographies, as a guide to the quality of potential acquisitions, they do not generally delegate their selection decisions to parties outside of the public library or its governing body. One limited exception is the use of third-party vendors or approval plans to acquire print and videores our ces. In such arrangements, third-party vendors provide materials based on the library's description of its collection development criteria. The vendors ends materials to the library, and the library retains the materials that meet its collection development needs and returns the materials that do not. Even in this arrangement, however, the librarians still retain ultimate control over their collection development and review all of the materials that enter their library's collection.

#### 2.TheInternetinPublicLibraries

The vast majority of public libraries of fer Internet access to their patrons. According to a recent report by the U.S. National Commission on Libraries and InformationScience,approximately95% of all public libraries provide publicaccess to the Internet. John C. Bertot & Charles R. McClure, Public Libraries and the Internet 2000: Summary Findings and Data Tables , Report to National Commission on Libraries and Information Science, at 3 . The Internet vastly expands the amount of information available to patrons of public libraries. The wides pread availability of Internet access in public libraries is due, in part, to the availability of public funding, including state and local funding and the federal funding programs regulated by CIPA.

ManylibrariesfacealargeamountofpatrondemandfortheirInternetservices.

Atsomelibraries,patrondemandforInternetaccessduringagivendayexceedsthe supplyofcomputerterminalswithaccesstotheInternet.Theselibrariesusesign-inand timelimitproceduresand/orestablishrulesregardingtheallowableusesoftheterminals, inanefforttorationtheircomputerresources. Forexample,someofthelibrarieswhose librarianstestifiedattrialprohibittheuseofemailandchatfunctionsontheirpublic Internetterminals.

PubliclibrariesplayanimportantroleinprovidingInternetaccesstocitizenswho wouldnototherwisepossessit. Ofthe143millionAmericansusingtheInternet, approximately10%,or14.3millionpeople,accesstheInternetatapubliclibrary.

Internetaccessatpubliclibrariesismoreoftenusedbythosewithlowerincomesthan thosewithhigherincomes.About20.3%ofInternetuserswithhouseholdfamilyincome oflessthan\$15,000peryearusepubliclibrariesforInternetaccess. Approximately70%

of libraries serving communities with poverty levels in excess of 40% receive E-rate discounts.

#### a.InternetUsePoliciesinPublicLibraries

Approximately95% of libraries with public Internetaccess have some form of "acceptable use" policy or "Internetuse" policy governing patrons' use of the Internet. These policies set for the conditions under which patrons are permitted to access and use the library's Internet resources. These policies varywidely. Some of the less restrictive policies, like those held by Multnomah County Library and Fort Vancouver Regional Library, do not prohibitadult patrons from viewing sexually explicit materials on the Web, as long as they do so atterminals with privacy screens or recessed monitors, which are designed to prevent other patrons from seeing the material that they are viewing, and as long as it does not violate state or federal law to do so. Other libraries prohibit their patrons from viewing all "sexually explicit" or "sexually graphic" materials.

Somelibrariesprohibittheviewingofmaterialsthatarenotnecessarilysexual, suchas Webpagesthatare "harmfultominors," "offensivetothepublic," "objectionable," "raciallyoffensive," orsimply "inappropriate." Otherlibrariesrestrict access to Websitesthat the library just does not want to provide, even though the sites are not necessarily offensive. For example, the Fulton County Public Library restricts access to the Websites of dating services. Similarly, the Tacoma Public Library's policy does not allow patrons to use the library's Internet terminals for personal email, for online chat,

orforplayinggames.

Insomecases, libraries instituted Internetuse policies after having experienced specific problems, whereas in other cases, libraries developed detailed Internetuse policies and regulatory measures (such as using filterings of tware) before ever offering public Internetaccess. Essentially four interests motivate libraries to institute Internetuse policies and to apply the methods described above to regulate their patrons' use of the Internet.

First, libraries have sought to protect patrons (especially children) and staff members from accidentally viewing sexually explicitimages, or other Webpages containing content deemed harmful, that other patrons are viewing on the Internet. For example, some librarians who testified described situations in which patrons left sexually explicit images minimized on an Internet terminal so that the next patron would see them when they began using it, or in which patrons printed sexually explicit images from a Website and left the matapublic printer.

Second, libraries have attempted to protect patrons from unwittingly or accidentally accessing Webpages that they do not wish to see while they are using the Internet. For example, the Memphis-Shelby County (Tennessee) Public Library's Internet use policy states that the library "employs filtering technology to reduce the possibility that customers may encounter objection able content in the form of depictions of full nudity and sexual acts."

Third, libraries have sought to keep patrons (again, especially children) from intentionally accessing sexually explicit materials or other materials that the library deems in appropriate. For example, a study of the Tacoma Public Library's Internet use logs for the year 2000 showed that users between the ages of 11 and 15 accounted for 41% of the filter blocks that occurred on library computers. The study, which we credit, concluded that children and young teens were actively seeking to access exually explicit images in the library. The Green ville Library's Board of Directors was particularly concerned that patrons were accessing obscene materials in the public library inviolation of South Carolina's obscenity statute.

Finally, somelibraries have regulated patrons' Internet use to attempt to control patrons' in appropriate (or illegal) behavior that is thought to stem from viewing Web pages that contains exually explicit materials or content that is otherwise deemed unacceptable.

Werecognize the concerns that leds ever a loft hepublic libraries whose librarians and board members testified in this case to start using Internet filterings of tware. The testimony of the Chairman of the Board of the Green ville Public Library is illustrative. December 1999, there was considerable local press coverage in Green ville concerning adult patrons who routinely used the library to surf the Webfor pornography. In response to public outcrystemming from the newspaper report, the Board of Trustees held a special board meeting to obtain information and to communicate with the public

In

concerningthelibrary's provision of Internetaccess. At this meeting, the Boardlearned for the first time of complaints about children being exposed to pornography that was displayed on the library's Internet terminals.

InlateJanuarytoearlyFebruaryof2000,thelibraryinstalledprivacyscreensand recessedterminalsinanefforttorestrictthedisplayofsexuallyexplicitWebsitesatthe library. InFebruary,2000,theBoardinformedthelibrarystaffthattheywereexpectedto befamiliarwiththeSouthCarolinaobscenitystatuteandtoenforcethepolicyprohibition onaccesstoobscenematerials,childpornography,orothermaterialsprohibitedunder applicablelocal,state,andfederallaws.Staffweretoldthattheyweretoenforcethe policybymeansofa"tapontheshoulder." PriortoadoptingitscurrentInternetUse Policy,theBoardadoptedan"AddendumtoCurrentInternetUsePolicy."Underthe policy,theBoardtemporarilyinstitutedatwo-hourtimelimitperdayforInternetuse; reducedsubstantiallythenumberofcomputerswithInternetaccessinthelibrary; reconfiguredthelocationofthecomputerssothatlibrarianshadvisualcontactwithall Internet-accessibleterminals;andremovedtheprivacyscreensfromterminalswith Internetaccess.

EvenaftertheBoardimplementedtheprivacyscreensandlaterthe"tap-on-the-shoulder"policycombinedwithplacingterminalsinviewoflibrarians,the library experiencedahighturnoverrateamongreferencelibrarianswhoworkedinviewof Internetterminals. Findingthatthepoliciesthatithadtrieddidnotpreventtheviewing

ofsexuallyexplicitmaterialsinthelibrary, theBoardatonepointconsidered discontinuingInternetaccessinthelibrary. TheBoardfinallyconcludedthatthemethods thatithadusedtoregulateInternetusewerenotsufficienttostemthebehavioral problemsthatitthoughtwerelinkedtotheavailabilityofpornographicmaterialsinthe library. Asaresult, it implemented amandatory filtering policy.

Wenote, however, that none of the libraries proffered by the defendant spresented any systematic records or quantitative comparison of the amount of criminal or otherwise in appropriate behavior that occurred in their libraries before they began using Internet filterings of tware compared to the amount that happened after they in stalled the software. The plaintiffs' witnesses also testified that because public libraries are public places, incidents involving in appropriate behavior in libraries (sexual and otherwise) existed long before libraries provided access to the Internet.

#### b. Methods for Regulating Internet Use

ThemethodsthatpubliclibrariesusetoregulateInternetusevarygreatly. They can be organized into four categories: (1) channeling patrons' Internetuse; (2) separating patrons so that they will not see what other patrons are viewing; (3) placing Internet terminals in public view and having librarian sobserve patrons to make sure that they are complying with the library's Internetuse policy; and (4) using Internet filterings of tware.

Thefirstcategory–channelingpatrons'Internetuse–frequentlyincludesoffering trainingtopatronsonhowtousetheInternet,includinghowtoaccesstheinformation

thattheywantandtoavoidthematerialsthattheydonotwant. Anothertechniquethat somepublic libraries use to direct their patrons to pages that the libraries have determined to be accurate and valuable is to establish links to "recommended Websites" from the public library's home page (i.e., the page that appears when patrons begin as essionatone of the library's public Internet terminals). Librarians select these recommended Websites by using criteria similar to those employed intraditional collection development. However, unless the library determines otherwise, selection of these specific sites does not preclude patrons from attempting to access other Internet Websites.

Libraries may extend the "recommended Websites" method further by limiting patrons' access to only those Websites that are reviewed and selected by the library's staff. For example, in 1996, the Westerville, Ohio Library offered Internet access to children through a service called the "Library Channel." This service was intended to be a mean shywhich the library could organize the Internet in some fashion for presentation to patrons. Through the Library Channel, the computers in the children's section of the library were restricted to 2,000 to 3,000 sites selected by librarians. After three years, Westervilles to ppedusing the Library Channel system because it overly constrained the children's ability to access materials on the Internet, and because the library experienced several technical problems with the system.

Publiclibrariesalsouseseveraldifferenttechniquestoseparatepatronsduring

Internetsessionssothattheywillnotseewhatotherpatronsareviewing. The simplest

waytoachievethisresultistopositionthelibrary'spublicInternetterminalssothatthey arelocatedawayfromtrafficpatternsinthelibrary(andfromotherterminals), for example, by placing them so that they face a wall. This method is obviously constrained bylibraries'spacelimitationsandphysicallayout.Somelibrarieshavealsoinstalled privacyscreensontheirpublicInternetterminals. Thesescreensmakeamonitorappear <sup>5</sup>AlthoughtheMultnomahandFort blankunlesstheviewerislookingatithead-on. VancouverLibraries submitted records showing that they have received few complaints regardingpatrons'unwillingexposuretomaterialsontheInternet,privacyscreensdonot alwayspreventlibrarypatronsoremployeesfrominadvertentlyseeingthematerialsthat anotherpatronisviewingwhenpassingdirectlybehindaterminal. Theyalsohavethe drawbackofmakingitdifficultforpatronstoworktogetheratasingleterminal, orfor librarianstoassistpatronsatterminals, because it is difficult for two peopletost and side bysideandviewascreenatthesametime. Somelibrary patronsals of indprivacy screenstobeahindranceandhaveattemptedtoremovetheminordertoimprovethe brightnessofthescreenortomaketheviewbetter.

Anothermethodthatlibrariesusetopreventpatronsfromseeingwhatother

<sup>&</sup>lt;sup>5</sup>FortVancouverRegionalLibrary,forexample,combinesthemethodsof strategicallyplacingterminalsinlowtrafficareasandusingprivacyscreens. Asection headed "ConfidentialityandPrivacy" on the library shome pagestates: "inorder to protect the privacy of the user and the interests of other library patrons, the library will attempt to minimize unintentional viewing of the Internet. This will be done by use of privacy screens, and by judicious placement of the terminals and other appropriate means."

patronsareviewingontheirterminalsistheinstallationof"recessedmonitors."

Recessedmonitorsarecomputerscreensthatsitbelowthelevelofadesktopandare viewedfromabove. Althoughrecessedmonitors, especially when combined with privacy screens, eliminate almost all of the possibility of a patronaccident ally viewing the contents on another patron's screen, they suffer from the same drawbacks as privacy screens, that is, they make it difficult for patrons to work together or with alibrarianata single terminal. Some librarians also testified that recessed monitors are costly, but did not indicate how expensive they are compared to privacy screens or filterings of tware. A related technique that some public libraries use is to create as eparate children's Internet viewing area, where no adults except those accompanying children in their care may use the Internet terminals. This serves the objective of keeping children from in advertently viewing materials appropriate only for adults that adults may be viewing on near by terminals.

AthirdsetoftechniquesthatpubliclibrarieshaveusedtoenforcetheirInternet usepoliciestakestheoppositetackfromtheprivacyscreens/recessedmonitorsapproach byplacingallofthelibrary'spublicInternetterminalsinprominentandvisiblelocations, suchasnearthelibrary'sreferencedesk.Thisapproachallowslibrarianstoenforcetheir library'sInternetusepolicybyobservingwhatpatronsareviewingandemployingthe tap-on-the-shoulderpolicy.Underthisapproach,whenpatronsareviewingmaterialsthat areinconsistentwiththelibrary'spolicies,alibrarystaffmemberapproachesthemand

asksthemtoviewsomethingelse,ormayaskthemtoendtheirInternetsession. Apatron whodoesnotcomplywiththeserequests,orwhorepeatedlyviewsmaterialsnot permittedunderthelibrary's Internetusepolicy, may have his orher Internetor library privileges suspended or revoked. But many librarians are uncomfortable with approaching patrons who are viewing sexually explicit images, finding confrontation unpleasant. Hence some libraries are reluctant to apply the tap-on-the-should erpolicy.

Thefourthcategoryofmethodsthatpubliclibrariesemploytoenforcetheir

Internetusepolicies, and the one that gives rise to this case, is the use of Internet filtering software. According to the June 2000 Survey of Internet Access Management in Public Libraries, approximately 7% of libraries with public Internet access had mandated the use of blocking programs by adult patrons. Some public libraries provide patrons with the option of using ablocking program, allowing patrons to decide whether to engage the program when they or their children access the Internet. Other public libraries require their child patrons to use filterings of tware, but not their adult patrons.

Filteringsoftwarevendorsselltheirproductsonasubscriptionbasis. The cost of a subscription varies with the number of computers on which the filterings of tware will be used. In 2001, the cost of the Cyber Patrol filterings of tware was \$1,950 for 100 terminal licenses. The Green ville County Library System pays \$2,500 per year for the N2H2 filterings of tware, and a subscription to the Websense filter costs Wester ville Public Library approximately \$1,200 per year.

Noevidencewaspresentedonthecostofprivacyscreens,recessedmonitors,and thetap-on-the-shoulderpolicy,relativetothecostsoffilteringsoftware.Nordidanyof thelibrariesprofferedbythegovernmentpresentanyquantitativeevidenceontherelative effectivenessofuseofprivacyscreenstopreventpatronsfrombeingunwillinglyexposed tosexuallyexplicitmaterial,andtheuseoffilters,discussedbelow.Noevidencewas presented,forexample,comparingthenumberofpatroncomplaintsinthoselibrariesthat havetriedbothmethods.

ThelibrarianswhotestifiedattrialwhoselibrariesuseInternetfilteringsoftware allprovidemethodsbywhichtheirpatronsmayaskthelibrarytounblockspecificWeb sitesorpages.Ofthese,onlytheTacomaPublicLibraryallowspatronstorequestthata URLbeunblockedwithoutprovidinganyidentifyinginformation;Tacomaallowspatrons torequestaURLbysendinganemailfromtheInternetterminalthatthepatronisusing thatdoesnotcontainareturnemailaddressfortheuser.DavidBiek,theheadlibrarianat theTacomaLibrary'smainbranch,testifiedattrialthatthelibrarykeepsrecordsthat wouldenableittoknowwhichpatronsmadeunblockingrequests,butdoesnotusethat informationtoconnectuserswiththeirrequests.Biekalsotestifiedthatheperiodically scansthelibrary'sInternetuselogstosearchfor:(1)URLsthatwereerroneously blocked,sothathemayunblockthem;or(2)URLsthatshouldhavebeenblocked,but werenot,inordertoaddthemtoablockedcategorylist.Inthecourseofscanningthe uselogs,Biekhasalsofoundwhatlookedlikeattemptstoaccesschildpornography.In

twocases,hecommunicatedhisfindingstolawenforcementandturnedoverthelogsin responsetoasubpoena.

Atallevents, ittakestime for librarian stomakedecisions about whether to honor patrons' requests to unblock Webpages. In the libraries proffered by the defendants, unblocking decisions sometimes take between 24 hours and aweek. Moreover, none of these libraries allows unrestricted access to the Internet pending a determination of the validity of a Website blocked by the blocking programs. A few of the defendants' proffered libraries represented that individual librarians would have the discretion to allow a patron to have full Internet access on a staff computer upon request, but none claimed that allowing such access was mandatory, and patron access is supervised in every instance. None of these libraries makes differential unblocking decisions based on the patrons' age. Unblocking decisions are usually made identically for a dults and minors. Unblocking decisions even for a dults are usually based on suitability of the Web site forminors.

It is apparent that many patrons are reluctant or unwilling to ask librarians to unblock Webpages or sites that contain only materials that might be deemed personal or embarrassing, even if they are not sexually explicit or pornographic. We credit the testimony of Emmalyn Rood, discussed above, that she would have been unwilling as a young teen to ask a librariant od is able filtering software so that she could view materials concerning ay and les bianissues. We also credit the testimony of Mark Brown, who

stated that he would have been too embarrassed to askalibrariant odisable filtering software if it had impeded his ability to research treatments and cosmetic surgery options for his mother when she was diagnosed with breast cancer.

ThepatternofpatronrequeststounblockspecificURLsinthevariouslibraries involvedinthiscasealsoconfirmsourfindingthatpatronsarelargelyunwillingtomake unblockingrequestsunlesstheyarepermittedtodosoanonymously.Forexample, the FultonCountyLibraryreceivesonlyabout6unblockingrequestseachyear,the GreenvillePublicLibraryhasreceivedonly28unblockingrequestssinceAugust21, 2000,andtheWesterville,OhioLibraryhasreceivedfewerthan10unblockingrequests since1999. Inlightofthefactthatasubstantialamountofoverblockingoccursinthese verylibraries, seeinfra SubsectionII.E.4,wefindthatthelackofunblockingrequestsin theselibrariesdoesnotreflecttheeffectivenessofthefilters,butratherreflectspatrons' reluctancetoasklibrarianstounblocksites.

#### E.InternetFilteringTechnology

## 1. What Is Filtering Software, Who Makes It, and What Does It Do?

Commercially available products that can be configured to block or filter access to certain material on the Internet area mong the "technology protection measures" that may be used to attempt to comply with CIPA. There are numerous filterings of tware products available commercially. Three network-based filtering products—Surf Control's Cyber Patrol, N2H2's Bess/i2100, and Secure Computing's Smart Filter—currently have the

lion's share of the public library market. The parties in this case deposed representatives from these three companies. Websense, another network-based blocking product, is also currently used in the public library market, and was discussed attrial.

Filteringsoftwaremaybeinstalledeitheronanindividualcomputerorona computernetwork. Network-basedfilteringsoftwareproductsaredesignedforuseona networkofcomputersandfunnelrequestsforInternetcontentthroughacentralized networkdevice.Ofthevariouscommerciallyavailableblockingproducts,network-basedproductsaretheonesgenerallymarketedtoinstitutions,suchaspubliclibraries, thatprovideInternetaccessthroughmultipleterminals.

Filteringprogramsfunctioninafairlysimpleway. When an Internetuser requests access to accertain Website or page, either by entering a domain name or IP address into a Webbrowser, or by clicking on a link, the filterings of tware checks that domain name or IP address against a previously compiled "controllist" that may contain up to hundreds of thousands of URLs. The three companies deposed in this case have controllists containing between 200,000 and 600,000 URLs. The selists determine which URLs will be blocked.

Filteringsoftwarecompanies divide their controllists intomultiple categories for which they have created unique definitions. Surf Control uses 40 such categories, N2H2 uses 35 categories (and seven "exception" categories ), Websenseuses 30 categories, and Secure Computinguses 30 categories. Filterings of tware customers choose which

categoriesofURLstheywishtoenable. Auser "enables" acategory in a filtering program by configuring the program to block all of the Webpages listed in that category.

Thefollowingisalistofthecategoriesofferedbyeachofthesefourfiltering programs. SurfControl'sCyberPatroloffersthefollowingcategories:Adult/Sexually Explicit;Advertisements;Arts&Entertainment;Chat;Computing&Internet;Criminal Skills;Drugs,Alcohol&Tobacco;Education;Finance&Investment;Food&Drink; Gambling;Games;Glamour&IntimateApparel;Government&Politics;Hacking;Hate Speech;Health&Medicine;Hobbies&Recreation;HostingSites;JobSearch&Career Development;Kids'Sites;Lifestyle&Culture;MotorVehicles;News;Personals& Dating;PhotoSearches;RealEstate;Reference;Religion;RemoteProxies;Sex Education;SearchEngines;Shopping;Sports;StreamingMedia;Travel;UsenetNews; Violence;Weapons;andWeb-basedEmail.

N2H2offersthefollowingcategories:AdultsOnly;Alcohol;Auction;Chat;
Drugs;ElectronicCommerce;EmploymentSearch;FreeMail;FreePages;Gambling;
Games;Hate/Discrimination;Illegal;Jokes;Lingerie;Message/BulletinBoards;
Murder/Suicide;News;Nudity;PersonalInformation;Personals;Pornography;Profanity;
Recreation/Entertainment;SchoolCheatingInformation;SearchEngines;SearchTerms;
Sex;Sports;Stocks;Swimsuits;Tasteless/Gross;Tobacco;Violence;andWeapons.The
"Nudity"categorypurportstoblockonly"non-pornographic"images.The"Sex"
categoryisintendedtoblockonlythosedepictionsofsexualactivitythatarenotintended

toarouse. The "Tasteless/Gross" categoryincludes contents such as "tasteless humor" and "graphic medical oraccidents cenephotos." Additionally, N2H2 offers seven "exception categories." These exception categories include Education, Filtered Search Engine, For Kids, History, Medical, Moderated, and Text/Spoken Only. When an exception category is enabled, access to any Website or pagevia a URL associated with both a category and an exception, for example, both "Sex" and "Education," will be allowed, even if the customer has enabled the product to otherwise block the category "Sex." As of November 15,2001, of those Websites categorized by N2H2 as "Sex," 3.6% were also categorized as "Education," 2.9% as "Medical," and 1.6% as "History."

Websenseoffersthefollowingcategories: Abortion Advocacy; Advocacy Groups; Adult Material; Business & Economy; Drugs; Education; Entertainment; Gambling; Games; Government; Health; Illegal/Questionable; Information Technology; Internet Communication; JobSearch; Militancy/Extremist; News & Media; Productivity Management; Bandwidth Management; Racism/Hate; Religion; Shopping; Society & Lifestyle; Special Events; Sports; Tasteless; Travel; Vehicles; Violence; and Weapons. The "Adult" category includes "full or partial nudity of individuals," as well assites offering "light adult humorand literature" and "[s] exually explicit language." The "Sexuality/Pornography" category includes, interalia, "hard-coreadult humorand literature" and "[s] exually explicit language." The "Tasteless" category includes "hard-to-stomach sites, including offensive, worthless or use less sites, grotes que or lurid

depictionsofbodilyharm."The "Hacking" categoryblocks "sitesproviding information on or promoting illegalor questionable access to or use of communications equipment and/or software."

SmartFilteroffersthefollowingcategories:Anonymizers/Translators;Art& Culture;Chat;CriminalSkills;Cults/Occult;Dating;Drugs;Entertainment;

Extreme/Obscene/Violence;Gambling;Games;GeneralNews;HateSpeech;Humor;

Investing;JobSearch;Lifestyle;Mature;MP3Sites;Nudity;On-lineSales;Personal Pages;Politics,Opinion&Religion;PortalSites;Self-Help/Health;Sex;Sports;Travel; UsenetNews;andWebmail.

Mostimportantly,nocategorydefinitionusedbyfilteringsoftwarecompaniesis identicaltoCIPA'sdefinitionsofvisualdepictionsthatareobscene,childpornography, orharmfultominors. And categorydefinitions and categorization decisions are made without reference to local community standards. Moreover, there is no judicial involvement in the creation of filterings of twarecompanies' category definitions and no judicial determination is made before the secompanies categorize a Webpage or site.

EachfilteringsoftwarecompanyassociateseachURLinitscontrollistwitha "tag"orotheridentifierthatindicatesthecompany's evaluation of whether the contentor features of the Website or page accessed via that URL meets one or more of its category definitions. If a user attempts to access a Website or page that is blocked by the filter, the user is immediately presented with a screen that indicates that a block has occurred as

are sult of the operation of the filterings of tware. These "denials creens" appear only at the point that auser at tempts to access as ite or page in an enabled category.

Allfourofthefilteringprogramsonwhichevidencewaspresentedallowusersto customizethecategoryliststhatexistontheirownPCsorserversbyaddingorremoving specificURLs.Forexample,ifapubliclibrarianchargedwithadministeringalibrary's InternetterminalscomesacrossaWebsitethatheorshefindsobjectionablethatisnot blockedbythefilteringprogramthathisorherlibraryisusing,thenthelibrarianmayadd thatURLtoacategorylistthatexistsonlyonthelibrary'snetwork,anditwould thereafterbeblockedunderthatcategory.Similarly,acustomermayremoveindividual URLsfromcategorylists.Importantly,however,noonebutthefilteringcompanieshas accesstothecompletelistofURLsinanycategory. TheactualURLsorIPaddressesof theWebsitesorpagescontainedinfilteringsoftwarevendors'categorylistsare consideredtobeproprietaryinformation,andareunavailableforreviewbycustomersor thegeneralpublic,including theproprietorsofWebsitesthatareblockedbyfiltering software.

FilteringsoftwarecompaniesdonotgenerallynotifytheproprietorsofWebsites whentheyblocktheirsites. TheonlywaytodiscoverwhichURLsareblocked and which are not blocked by any particular filtering company is bytesting individual URLs

<sup>&</sup>lt;sup>6</sup>Indeed,wegrantedleaveforN2H2'scounseltointerveneinordertoobjectto testimonythatwouldpotentiallyrevealN2H2'stradesecrets,whichhedidonseveral occasions.

withfilteringsoftware, or by entering URLs one by one into the "URLchecker" that most filteringsoftware companies provide on their Websites. Filteringsoftware companies will entertain requests for recategorization from proprietors of Websites that discover their sites are blocked. Because new pages are constantly being added to the Web, filtering companies provide their customers with periodic updates of category lists. Once a particular Webpage or site is categorized, however, filtering companies generally do not re-review the contents of that page or site unless they receive a request to do so, even though the content on individual Webpages and sites changes frequently.

### 2. The Methods that Filtering Companies Use to Compile Category Lists

Whilethewayinwhichfilteringprogramsoperateisconceptuallystraightforward –bycomparingarequestedURLtoapreviouslycompiledlistofURLsandblocking accesstothecontentatthatURLifitappearsonthelist–accuratelycompilingand categorizingURLstoformthecategorylistsisamorecomplexprocessthatisimpossible toconductwithanyhighdegreeofaccuracy. Thespecificmethodsthatfilteringsoftware companiesusetocompileandcategorizecontrollistsare, liketheliststhemselves, proprietaryinformation. Wewillthereforesetforthonlygeneralinformationonthe varioustypesofmethodsthatallfilteringcompaniesdeposedinthiscaseuse, and the sourcesoferrorthatareatonceinherentinthosemethodsandunavoidablegiventhe currentarchitectureoftheInternetandthecurrentstateoftheartinautomated classificationsystems. Webaseourunderstandingofthesemethodslargelyonthe

 $detailed testimony and expert report of Dr. Geoffrey Nunberg, which we credit. The plaint if fsoffered, and the Court qualified, Nunbergas an expert witness on automated classification systems. \\^{7}$ 

When compiling and categorizing URLs for their category lists, filterings of tware companies go through two distinct phases. First, they must collect or "harvest" the relevant URLs from the vast number of sites that exist on the Web. Second, they must sort through the URLs they have collected to determine under which of the company's self-defined categories (if any), they should be classified. These tasks necessarily result in a trade of f between overblocking (i.e., the blocking of content that does not meet the category definitions established by CIPA or by the filterings of tware companies), and under blocking (i.e., leaving of foa controllista URL that contains content that would meet the category definitions defined by CIPA or the filterings of tware companies).

# a.The"Harvesting"Phase

Filterings of tware companies, given their limited resources, do not attempt to index or classify all of the billions of pages that exist on the Web. Instead, the set of pages that they attempt to examine and classify is restricted to a small portion of the Web.

<sup>&</sup>lt;sup>7</sup>GeoffreyNunberg(Ph.D.,Linguistics,C.U.N.Y.1977)isaresearcherattheCenter fortheStudyofLanguageandInformationatStanfordUniversityandaConsultingFull ProfessorofLinguisticsatStanfordUniversity.Until2001,hewasalsoaprincipal scientistattheXeroxPaloAltoResearchCenter.Hisresearchcentersonautomated classificationsystems,withafocusonclassifyingdocumentsontheWebwithrespectto theirlinguisticproperties.Hehaspublishedhisresearchinnumerousprofessional journals,includingpeer-reviewedjournals.

The companies use a variety of automated and manual methods to identify a universe of Websites and pagesto "harvest" for classification. The semethods include: entering certain keywords into sear chengines; following links from a variety of online directories (e.g., generalized directories like Yahoo or various specialized directories, such as those that provide links to sexually explicit content); reviewing lists of newly-registered domain names; buying or licensing lists of URLs from third parties; "mining" access logs maintained by their customers; and reviewing others ubmissions from customers and the public. The goal of each of the semethods is to identify a smany URLs as possible that a relikely to contain content that falls within the filtering companies' category definitions.

Thefirstmethod, entering certainkeywords into commercial search engines, suffers from several limitations. First, the Webpagesthat may be "harvested" through this method are limited to those pages that search engines have already identified. However, as noted above, a substantial portion of the Webis not even theoretically indexable (because it is not linked to by any previously known page), and only approximately 50% of the pagesthat are theoretically indexable have actually been indexed by search engines. We are satisfied that the remainder of the indexable Web, and the vast "Deep Web," which cannot currently be indexed, includes materials that meet CIPA's categories of visual depictions that are obscene, child pornography, and harmful to minors. These portions of the Web cannot presently behave sted through the methods that filterings of tware companies use (except through reporting by customers or by

observingusers'logfiles),becausetheyarenotlinkedtootherknownpages.Ausercan, however,gainaccesstoaWebsiteintheunindexedWebortheDeepWebiftheWeb site'sproprietororsomeotherthirdpartyinformstheuserofthesite'sURL.SomeWeb sites,forexample,sendoutmassemailadvertisementscontainingthesite'sURL,the spammingprocesswehavedescribedabove.

Second, these archengines that software companies use for harvesting are able to Thisisofcriticalimportance, because CIPA, by itsown searchtextonly, notimages. terms, coversonly "visual depictions." 20U.S.C. § 9134(f)(1)(A)(i);47U.S.C. § 254(h)(5)(B)(i).Imagerecognitiontechnologyisimmature,ineffective,andunlikelyto improvesubstantially in the near future. None of the filterings of tware companies deposedinthiscaseemploysimagerecognitiontechnologywhenharvestingor categorizing URLs. Due to the reliance on automated text analysis and the absence of imagerecognitiontechnology, a Webpagewiths exually explicit images and not ext cannotbeharvestedusingasearchengine. This problem is complicated by the fact that Websitepublishersmayuseimagefilesratherthantexttorepresentwords, i.e., they may useafilethatcomputersunderstandtobeapicture, likeaphotographofaprintedword, ratherthanregulartext, making automated review of their textual content impossible. For example, if the Playboy Websited is plays its name using a logorather than regular text, a searchenginewouldnotseeorrecognizethePlayboynameinthatlogo.

InadditiontocollectingURLsthroughsearchenginesandWebdirectories

(particularlythosespecializinginsexuallyexplicitsitesorothercategoriesrelevanttoone of the filtering companies' category definitions), and by mininguser logs and collecting URLs submitted by users, the filtering companies expand their list of harvested URLs by using "spidering" software that can "crawl" the lists of pages produced by the previous four methods, following their links downward to bring back the pages to which they link (and the pages to which those pages link, and soon, but usually down only a few levels). This spiderings of tware uses the same type of technology that commercial Websearch engines use.

WhileusefulinexpandingthenumberofrelevantURLs, the ability to retrieve additional pages through this approach is limited by the architectural feature of the Web that page-to-page links tend to converge rather than diverge. That means that the more pages from which one spiders downward through links, the smaller the proportion of new sites one will uncover; if spidering the links of 1000 sites retrieved through a search engine or Web directory turns up 500 additional distinct adults it es, spidering an additional 1000 sites may turn up, for example, only 250 additional distinct sites, and the proportion of new sites uncovered will continue to diminish as more pages are spidered.

 $The selimitations on the technology used to harvest a set of URLs for review will \\ necessarily lead to substantial under blocking of material with respect to both the category \\ definition semployed by filterings of tware companies and CIPA's definitions of visual \\ depictions that are obscene, child pornography, or harmful to minors.$ 

## b.The"Winnowing" or Categorization Phase

Once the URL shave been harvested, some filterings of twa recompanies useautomatedkeywordanalysistoolstoevaluatethecontentand/orfeaturesofWebsitesor pagesaccessed via a particular URL and to tentatively prioritize or categorize them. This processmaybecharacterizedas"winnowing"theharvestedURLs. Automatedsystems currently used by filterings of twarevendors to prioritize, and to categorize or tentatively categorize the content and/or features of a Website or page accessed via a particular URLoperatebymeansof(1)simplekeywordsearching,and(2)theuseofstatistical algorithmsthatrelyonthefrequencyandstructureofvariouslinguisticfeaturesinaWeb page'stext. The automated systems used to categorize pages do not include image recognitiontechnology. Allofthefilteringcompaniesdeposedinthecasealsoemploy humanreviewofsomeorallcollectedWebpagesatsomepointduringtheprocessof categorizingWebpages.Aswiththeharvestingprocess, each technique employed in the winnowingprocessissubjecttolimitationsthatcanresultinbothoverblockingand underblocking.

First, simplekey-word-based filters are subject to the obvious limitation that no string of words can identify all sites that contains exually explicit content, and most strings of words are likely to appear in Websites that are not properly classified as containing sexually explicit content. As noted above, filterings of tware companies also use more sophisticated automated classification systems for the statistical classification of

texts. These systems as signweights towords or other textual features and use algorithms to determine whether a text belong sto a certain category. The seal gorithms sometimes make reference to the position of a word within a textorits relative proximity to other words. The weights are usually determined by machine learning methods (often described as "artificial intelligence"). In this procedure, which resembles an automated form of trial and error, a systemis given a "training set" consisting of documents preclassified into two or more groups, along with a set of features that might be potentially useful in classifying the sets. The system then "learns" rules that assign weights to those features according to how well they work in classification, and assigns each new document to a category with a certain probability.

Notwithstandingtheir "artificialintelligence" description, automated text classification systems are unable to grasp many distinctions between types of content that would be obvious to a human. And of critical importance, no presently conceivable technology can make the judgments necessary to determine whether a visual depiction fits the legal definitions of obscenity, child pornography, or harmful to minors.

Finally, all the filterings of tware companies deposed in this case uses ome form of human review in their process of winnowing and categorizing Webpages, although one company admitted to categorizing some Webpages without any human review .

Smart Filterstates that "the final categorization of every Website is done by a human reviewer." Another filtering company asserts that of the 10,000 to 30,000 Webpages that

enterthe "workqueue" to be categorized each day, two to three percent of those are automatically categorized by their Porn By Refsystem (which only applies to materials classified in the pornography category), and the remainder are categorized by human review. Surf Control also states that no URL is ever added to its database without human review.

HumanreviewofWebpageshastheadvantageofallowingmorenuanced,ifnot moreaccurate,interpretationsthanautomatedclassificationsystemsarecapableof making,butsuffersfromitsownsourcesoferror. Thefilteringsoftwarecompanies involvedherehavelimitedstaff,ofbetweeneightandafewdozenpeople,availablefor handreviewingWebpages.Thereviewersthatareemployedbythesecompaniesbase theircategorizationdecisionsonboththetextandthevisualdepictionsthatappearonthe sitesorpagestheyareassignedtoreview.HumanreviewersgenerallyfocusonEnglish languageWebsites,andaregenerallynotrequiredtobemulti-lingual.

Giventhespeedatwhichhumanreviewersmustworktokeepupwithevena fractionoftheapproximately1.5millionpagesaddedtothepubliclyindexableWebeach day,humanerrorisinevitable.Errorsarelikelytoresultfromboredomorlackof attentiveness,overzealousness,oradesireto"erronthesideofcaution"byscreeningout materialthatmightbeoffensivetosomecustomers,evenifitdoesnotfitwithinanyof thecompany'scategorydefinitions.Noneofthefilteringcompaniestrainsitsreviewers inthelegaldefinitionsconcerningwhatisobscene,childpornography,orharmfulto

minors, and none instructs reviewers to take community standards into account when making categorization decisions.

Perhapsbecauseoflimitationsonthenumberofhumanreviewersandbecauseof thelargenumberofnewpagesthatareaddedtotheWebeveryday,filteringcompanies alsowidelyengageinthepracticeofcategorizingentireWebsitesatthe"rootURL," ratherthanengaginginamorefine-grainedanalysisoftheindividualpageswithinaWeb site.Forexample,thefilteringsoftwarecompaniesdeposedinthiscaseallcategorizethe entirePlayboyWebsiteasAdult,SexuallyExplicit,orPornography.Theydonot differentiatebetweenpageswithinthesitecontainingsexuallyexplicitimagesortext,and forexample,pagescontainingnosexuallyexplicitcontent,suchasthetextofinterviews ofcelebritiesorpoliticians.Ifthe"root"or"top-level"URLofaWebsiteisgivena categorytag,thenaccesstoallcontentonthatWebsitewillbeblockediftheassigned categoryisenabledbyacustomer.

Insomecases, whole Websites are blocked because the filtering companies focus only on the content of the homepage that is accessed by entering the root URL. Entire Websites containing multiple Webpages are commonly categorized without human review of each individual page on that site. Websites that may contain multiple Webpages and that require authentication or payment for access are commonly categorized based solely on a human reviewer's evaluation of the pages that may be viewed prior to reaching the authentication or payment page.

BecausetheremaybehundredsorthousandsofpagesunderarootURL, filtering companiesmakeittheirprimarymissiontocategorizetherootURL, and categorize subsidiarypagesiftheneedarisesorifthereistime. This form of overblocking is called "inheritance," because lower-level pages inheritthe categorization of the root URL without regard to their specific content. In some cases, "reverse inheritance" also occurs, i.e., parents it es inheritthe classification of pages in a lower level of the site. This might happen when pages with sexual content appear in a Website that is devoted primarily to non-sexual content. For example, N2H2's Bess filtering product classifies every page in the Salon. com Website, which contains a widerange of news and cultural commentary, as "Sex, Profanity," based on the fact that the site includes a regular column that deals with sexual is sues.

BlockingbybothdomainnameandIPaddressisanotherpracticeinwhich filteringcompaniesengagethatisafunctionbothofthearchitectureoftheWebandof theexigenciesofdealingwiththerapidlyexpandingnumberofWebpages.Thecategory listsmaintainedbyfilteringsoftwarecompaniescanincludeURLsineithertheirhuman-readabledomainnameaddressform,theirnumericIPaddressform,orboth.Through "virtualhosting"services,hundredsofthousandsofWebsiteswithdistinctdomain namesmayshareasinglenumericIPaddress.Totheextentthatfilteringcompanies blocktheIPaddressesofvirtualhostingservices,theywillnecessarilyblockasubstantial amountofcontentwithoutreviewingit,andwilllikelyoverblockasubstantialamountof

content.

Anothertechniquethatfilteringcompaniesuseinordertodealwithastructural featureoftheInternetisblockingtherootlevelURLsofso-called"loophole"Websites. TheseareWebsitesthatprovideaccesstoaparticularWebpage,butdisplayintheuser's browseraURLthatisdifferentfromtheURLwithwhichtheparticularpageisusually associated.Becauseofthisfeature,theyprovidea"loophole"thatcanbeusedtoget aroundfilteringsoftware,i.e.,theydisplayaURLthatisdifferentfromtheonethat appearsonthefilteringcompany'scontrollist."Loophole"Websitesincludecachesof Webpagesthathavebeenremovedfromtheiroriginallocation, "anonymizer"sites, and translationsites.

Cachesarearchivedcopiesthatsomesearchengines, suchas Google, keepofthe Webpagestheyindex. The cachedcopystored by Google will have a URL that is different from the original URL. Because Websites often changer apidly, caches are the only way to access pagesthat have been taken down, revised, or have changed their URLs for some reason. For example, a magazine might place its current stories under a given URL, and replace the mmonthly with new stories. If a user wanted to find an article published six months ago, he or she would be unable to access it if not for Google's cached version.

SomesitesontheWebserveasaproxyorintermediarybetweenauserand anotherWebpage.Whenusingaproxyserver,auserdoesnotaccessthepagefromits

originalURL,butratherfromtheURLoftheproxyserver.Onetypeofproxyserviceis an "anonymizer." Usersmayaccess Websites indirectly via an anonymizer when they do not want the Website they are visiting to be able to determine the IP address from which they are accessing the site, or to leave "cookies" on their browser.

\*Some proxyservers can be used to attempt to translate Webpage content from one language to another.

Rather than directly accessing the original Webpage in its original language, users can instead in directly access the page via a proxyser veroffering translation features.

Asnotedabove, filtering companies of tenblock loopholesites, such as caches, an onymizers, and translation sites. The practice of blocking loopholesites necessarily results in a significant amount of overblocking, because the vast majority of the pages that are cached, for example, do not contain content that would match a filtering company's category definitions. Filters that do not block the seloopholesites, however, may enable users to access any URL on the Webviatheloopholesite, thus resulting in substantial under blocking.

## c.TheProcessfor"Re-Reviewing"WebPagesAfterTheirInitialCategorization

Mostfilteringsoftwarecompaniesdonotengageinsubsequentreviewsof categorizedsitesorpagesonascheduledbasis. Priorityisplacedonreviewing and

<sup>&</sup>lt;sup>8</sup>A"cookie"is"asmallfileorpartofafilestoredonaWorldWideWebuser's computer, created and subsequently read by a Websiteserver, and containing personal information (as a user identification code, customized preferences, or are cord of pages visited)." *Merriam-Webster's Collegiate Dictionary*, available at http://www.m-w.com/dictionary.htm.

categorizingnewsitesandpages,ratherthanonre-reviewingalreadycategorizedsites andpages. Typically, a filterings of twarevendor's previous categorization of a Website is not re-reviewed for accuracy when new pages are added to the Website. To the extent the Website was previously categorized as a whole, then ew pages added to the site usually share the categorization as signed by the blocking product vendor. This necessarily results in both over-and under blocking, because, as noted above, the content of Webpages and Websites changes relatively rapidly.

InadditiontothecontentonWebsitesorpageschangingrapidly,Websites themselvesmaydisappearandbereplacedbysiteswithentirelydifferentcontent.Ifan IPaddressassociatedwithaparticularWebsiteisblockedunderaparticularcategoryand theWebsitegoesoutofexistence,thentheIPaddresslikelywouldbereassignedtoa differentWebsite,eitherbyanInternetserviceproviderorbyaregistrationorganization, suchastheAmericanRegistryforInternetNumbers, see <a href="http://www.arin.net">http://www.arin.net</a>.Inthat case,thesitethatreceivedthereassignedIPaddresswouldlikelybemiscategorized.

Becausefilteringcompaniesdonotengageinsystematicre-reviewoftheircategorylists, suchasitewouldlikelyremainmiscategorizedunlesssomeonesubmittedittothe filteringcompanyforre-review,increasingtheincidenceofover-andunderblocking.

This failure to re-review Webpages primarily increases a filtering company's rate of overblocking. However, if a filtering company does not re-review Webpages after it determines that they do not fall into any of its blocking categories, then that would result

inunderblocking(because,forexample,apagemightaddsexuallyexplicitcontent).

## ${\bf 3.} The Inherent Trade off Between Overblocking and Underblocking$

Thereisaninherenttradeoffbetweenanyfilter's rateofoverblocking(which informationscientists also call "precision") and its rate of underblocking (which is also referred to as "recall"). The rateofover blocking or precision is measured by the proportion of the things a classification system as signstoacertain category that are appropriately classified. The plaintiffs' expert, Dr. Nunberg, provided the hypothetical example of a classification system that is asked to pick outpictures of dogs from a database consisting of 1000 pictures of animals, of which 80 were actually dogs. If it returned 100 hits, of which 80 were infact pictures of dogs, and the remaining 20 were pictures of cats, horses, and deer, we would say that the system identified dog pictures with a precision of 80%. This would be an alogous to a filter that overblocked a tarate of 20%.

Therecallmeasure involves determining what proportion of the actual members of a category the classification system has been able to identify. For example, if the hypothetical animal-picture database contained atotal of 200 pictures of dogs, and the systemidentified 80 of the mandfailed to identify 120, it would have performed with a recall of 40%. This would be an alogous to a filter that under blocked 60% of the material in a category.

Inautomated classification systems, there is always a trade of f between precision

andrecall.Intheanimal-pictureexample,therecallcouldbeimprovedbyusingalooser setofcriteriatoidentifythedogpicturesintheset,suchasanyanimalwithfourlegs, andallthedogswouldbeidentified,butcatsandotheranimalswouldalsobeincluded, witharesultinglossofprecision.Thesametradeoffexistsbetweenratesof overblockingandunderblockinginfilteringsystemsthatuseautomatedclassification systems.Forexample,anautomatedsystemthatclassifiesanyWebpagethatcontains theword "sex" assexually explicit will underblock much less, but overblock much more, than a system that classifies any Webpage containing the phrase "free pictures of people having sex" assexually explicit.

Thistradeoffbetweenoverblockingandunderblockingalsoappliesnotjustto automated classification systems, but also to filters that use only human review. Given the approximately two billion pages that exist on the Web, the 1.5 million new pages that are added daily, and the rate at which content on existing pages changes, if a filtering company blocks only those Web pages that have been reviewed by humans, it will be impossible, as a practical matter, to avoid vast amounts of underblocking. Techniques used by human reviewers such as blocking at the IP address level, domain name level, or directory level reduce the rates of underblocking, but necessarily increase the rates of overblocking, as discussed above.

Touseasimpleexample,itwouldbeeasytodesignafilterintendedtoblock sexuallyexplicitspeechthatcompletelyavoidsoverblocking.Suchafilterwouldhave

onlyasinglesexuallyexplicitWebsiteonitscontrollist, which could be re-reviewed daily to ensure that its content does not change. While the rewould be no overblocking problem with such a filter, such a filter would have a severe under blocking problem, a sit would fail to block all these xually explicits peech on the Webother than the one site on its controllist. Similarly, it would also be easy to design a filter intended to block sexually explicits peech that completely avoid sunder blocking. Such a filter would operate by permitting users to view only a single Website, e.g., the Sesame Street Website. While the rewould be no under blocking problem with such a filter, it would have a severe overblocking problem, a sit would block access to millions of non-sexually explicits it eson the Webother than the Sesame Street site.

While it is thus quite simple to design a filter that does not overblock, and equally simple to design a filter that does not under block, it is currently impossible, given the Internet's size, rate of growth, rate of change, and architecture, and given the state of the artofautomated classification systems, to develop a filter that neither under blocks nor overblocks a substantial amount of speech. The more effective a filter is at blocking Websites in a given category, the more the filter will necessarily overblock. Any filter that is reasonably effective in preventing users from accessing sexually explicit content on the Webwill necessarily blocks ubstantial amounts of non-sexually explicit speech.

## 4. Attempts to Quantify Filtering Programs' Rates of Over-and Underblocking

The government presented three studies, two from expert witnesses, and one from

alibrarian fact witness who conducted a study using Internet use logs from his own library, that attempt to quantify the over-and under blocking rates of five different filtering programs. The plaint iffs presented one expert witness who attempted to quantify the rates of over-and under blocking for various programs. Each of these attempts to quantify rates of over-and under blocking suffers from various methodological flaws.

Thefundamentalproblemwithcalculatingover-andunderblockingratesis selectingauniverseofWebsitesorWebpagestoserveasthesettobetested. The studiesthatthepartiessubmittedinthiscasetooktwodifferentapproachestothis problem. Twoofthestudies, one prepared by the plaintiffs' expert witness Chris Hunter, agraduatestudent at the University of Pennsylvania, and the other prepared by the defendants' expert, Chris Lemmonsofe Testing Laboratories, in Research Triangle Park, North Carolina, approached this problem by compiling two separate lists of Websites, one of URLs that they deemed should be blocked according to the filters' criteria, and another of URLs that they deemed should not be blocked according to the filters' criteria. They compiled the selists by choosing Websites from the results of certain keyword searches. The problem with this selection method is that it is neither random, nor does it

<sup>&</sup>lt;sup>9</sup>Hunterdrewthreedifferent "samples" for histest. The first consisted of "50 randomly generated Webpages from the Webcrawlersearch engine." The "second sample of 50 Webpages was drawn from searches for the terms 'yahoo, warez, hot mail, sex, and MP3, 'using the Alta Vista. comsearch engine." And the "final sample of 100 Websites was drawn from the sites of organizations who filed a micus briefs in support of the ACLU's challenges to the Community [sic] Decency Act (CDA) and COPA [the Children's Online Protection Act], and from Internet portals, political Websites, feminist Websites, hat espeech sites, gambling sites, religious sites, gay pride/homos exual sites,

necessarily approximate the universe of Webpages that library patrons visit.

Thetwootherstudies, one by David Biek, head librarian at the Tacoma Public Library's mainbranch, and one by Cory Finnellof Certus Consulting Group, of Seattle, Washington, chose actual logs of Webpages visited by library patrons during specific time periods as the universe of Webpagesto analyze. This method, while surely not as accurate as a truly random sample of the indexed Webwould be (assuming it would be possible to take such as ample), has the virtue of using the actual Websites that library patrons visited during a specific period. Because library patrons selected the universe of Websites that Biekand Finnell's studies analyzed, this removes the possibility of bias resulting from the study author's selection of the universe of sites to be reviewed. We find that the Lemmons and Hunterstudies are of little probative value because of the methodology used to select the sample universe of Websites to be tested. We will

alcohol, tobacco, and drugsites, pornographysites, newsites, violent gamesites, safesex sites, and proand anti-abortion sites listed on the popular Web directory, Yahoo.com."

Lemmonstestifiedthathecompiledthelistofsexuallyexplicitsitesthatshould havebeenblockedbyenteringtheterms "freeadultsex, analsex, oralsex, fisting lesbians, gaysex, interracialsex, bigtits, blowjob, shavedpussy, and bondage "into the Googlesearchengine and then "surfing" through links from pages generated by the list of sitesthat these archengine returned. Using this method, he compiled a list of 197 sites that he determined should be blocked according to the filtering programs 'category definitions. Lemmons also attempted to compile a list of "sensitive" Websitesthat, although they should not have been blocked according to the filtering programs 'category definitions, might have been mistakenly blocked. In order to do this, he used the same method of entering terms into the Googlesear chengine and surfing through the results. He used the following terms to compile this list: "breast feeding, bondages, fet is hes, ebony, gay is sues, women's health, lesbian, homosexual, vagina, vaginal dryness, pain, analcancer, teen is sues, safes ex, penis, pregnant, interracial, sexeducation, penis en largement, breast en largement, ... and shave."

 $therefore focus on the studies conducted by Finnell and Biekin trying to ascertain \\estimates of the rates of over-and under blocking that takes place when filters are used in public libraries.$ 

ThegovernmenthiredexpertwitnessCoryFinnelltostudytheInternetlogs compiledbythepubliclibrariessystemsinTacoma,Washington;Westerville,Ohio;and Greenville,SouthCarolina. Eachoftheselibrariesusesfilteringsoftwarethatkeepsalog ofinformationaboutindividualWebsiterequestsmadebylibrarypatrons. Finnell, whoseconsultingfirmspecializesindataanalysis,hassubstantialexperienceevaluating Internetaccesslogsgeneratedonnetworkedsystems.Hespentmorethanayear developingareportingtoolforN2H2,and,inthecourseofthatwork,acquireda familiaritywiththedesignandoperationofInternetfilteringproducts.

The Tacomalibrary uses Cyber Patrol filterings of tware, and logs information only on sites that were blocked. Finnell worked from a list of all sites that were blocked in the Tacoma public library in the month of August 2001. The Wester ville library uses the Websense filtering product, and logs information on both blocked sites and non-blocked sites. When the logs reach a certain size, they are overwritten by new usage logs.

Because of this overwriting feature, logs were available to Finnell only for the relatively short period from October 1,2001 to October 3,2001. The Green ville library uses

N2H2's filtering product and logs both blocked sites and sites that patrons accessed. The logs contain more than 500,000 records per day. Because of the volume of the records,

FinnellrestrictedhisanalysistotheperiodfromAugust2,2001toAugust15,2001.

Finnellcalculatedanoverblockingrateforeachofthethreelibrariesbyexamining thehostWebsitecontainingeachoftheblockedpages.Hedidnotemployasampling technique, butinstead examined each blocked Website. If the contents of a host Website orthepageswithintheWebsitewereconsistentwiththefilteringproduct'sdefinitionof thecategoryunderwhichthesitewasblocked, Finnell considered it to be an accurate block. Finnelland three others, two of whom were temporary employees, examined the Websitestodeterminewhethertheywereconsistentwiththefilteringcompanies' categorydefinitions. Theirreviewwas, of course, necessarily limited by: (1) the clarity of thefilteringcompanies' category definitions; (2) Finnell's and his employees' interpretations of the definitions; and (3) human error. The study's reliability is also undercutbythefactthatFinnellfailedtoarchivetheblockedWebpagesastheyexisted eitheratthepointthatapatroninoneofthethreelibrarieswasdeniedaccessorwhen Finnellandhisteamreviewedthepages. It is therefore impossible for anyone to check theaccuracyandconsistencyofFinnell'sreviewteam,ortoknowwhetherthepages contained the same content when the block occurred as they did when Finnell's team reviewedthem. This is a keyflaw, because the results of the study depend on individual determinations as to overblocking and underblocking, in which Finnelland his teamwere required to compare what they saw on the Webpagesthat they reviewed with standard definitionsprovided by the filtering company.

Tacomalibrary's Cyber Patrols of tware blocked 836 unique Websites during the month of August. Finnell determined that 783 of those blocks were accurate and that 53 were inaccurate. <sup>10</sup>The error rate for Cyber Patrol was therefore estimated to be 6.34%, and the true error rate was estimated with 95% confidence to lie within the range of 4.69% to 7.99%. <sup>11</sup>Finnelland his team reviewed 185 unique Websites that were blocked by Wester ville Library's Websense filter during the logged period and determined that 158 of them were accurate and that 27 of them were inaccurate. Hetherefore estimated the Websense filter's overblocking rate at 14.59% with a 95% confidence interval of 9.51% to 19.68%. Additionally, Finnellexamined 1,674 unique Websites that were blocked by the Green ville Library's N2H2 filter during the relevant period and determined that 1,520 were accurate and that 87 were inaccurate. This yields an estimated overblocking rate of 5.41% and a 95% confidence interval of 4.33% to 6.55%.

Finnell's methodology was materially flawed in that it under states the rate of overblocking for the following reasons. First, patrons from the three libraries knew that the resulting for the following reasons. First, patrons from the three libraries knew that the resulting for the following reasons. First, patrons from the three libraries knew that the resulting for the following reasons. First, patrons from the three libraries knew that the resulting for the following reasons. First, patrons from the three libraries knew that the resulting for the following reasons. First, patrons from the following reasons are the following reasons. First, patrons from the following reasons are the following reasons. First, patrons from the following reasons are the following

<sup>&</sup>lt;sup>10</sup>IfseparatepatronsattemptedtoreachthesameWebsite,oroneormorepatrons attemptedtoaccessmorethanonepageonasingleWebsite,Finnellcountedthese attemptsasasingleblock.Forexample,thetotalnumberofblockedrequestsforWeb pagesatTacomaLibraryduringtheloggedperiodwas2,812,butFinnellcountedthisas only895blocksofuniqueWebsites.Ofthe895uniqueblockedsites,Finnellwasunable toaccess59,yielding836uniqueblockedsitesforhisteamtoreview.

<sup>&</sup>lt;sup>11</sup>TheconfidenceintervalsthatFinnellcalculatedrepresenttherangeofpercentages withinwhichwecanbe95%confidentthattheactualrateofoverblockinginthat particularlibraryfalls.Wenotethattheseconfidenceintervalsassumethatthetime periodforwhichthestudyassessedthelibrary'sinternetlogsconstitutesarandomand representativesample.

the filters were operating, and may have been deterred from attempting to access Web sitesthattheyperceivedtobe"borderline"sites, i.e., thosethatmayormaynothavebeen appropriately filtered according to the filtering companies' category definitions. Second, intheircross-examination of Finnell, the plaintiffs of fereds creen shots of a number of Websitesthat, according to Finnell, had been appropriately blocked, but that Finnell admittedcontainedonlybenignmaterials. Finnell's explanation was that the Websites musthavechangedbetweenthetimewhenheconductedthestudyandthetimeofthe trial, but because he did not archive the images as they existed when his team reviewed themforthestudy, there is no way to verify this. Third, because of the way in which FinnellcountedblockedWebsites–i.e.,ifseparatepatronsattemptedtoreachthesame Website, or one or more patron sattempted to access more than one page on a single Web site, Finnell counted the seattempts as a single block, seesupra note10-hisresults necessarilyunderstatethenumberoftimesthatpatronswereerroneouslydeniedaccessto information.

Atallevents, there is no doubt that Finnell's estimated rates of overblocking, which are based on the filtering companies' own category definitions, significantly understate the rate of overblocking with respect to CIPA's category definitions for filtering for adults. The filters used in the Tacoma, Westerville, and Green ville libraries were configured to block, among other things, images of full nudity and sexually explicit materials. There is no dispute, however, that the secategories are far broader than CIPA's

categories of visual depictions that are obscene, or child pornography, the two categories of material that libraries subject to CIPA must certify that they filter during adults' use of the Internet.

Finnell'sstudyalsocalculatedunderblockingrateswithrespecttotheWesterville andGreenvilleLibraries(bothofwhichloggednotonlytheirblockedsites,butallsites visitedbytheirpatrons),bytakingrandomsamplesofURLsfromthelistofsitesthat werenotblocked. The studyused as ample of 159 sites that were accessed by Westerville patrons and determined that only one of themshould have been blocked under the software's category definitions, yielding an underblocking rate of 0.6%. Given the size of the sample, the 95% confidence interval is 0% to 1.86%. The study examined as ample of 254 Websites accessed by patrons in Green ville and found that three of themshould have been blocked under the filterings of tware's category definitions. This results in an estimated underblocking rate of 1.2% with a 95% confidence interval ranging from 0% to 2.51%.

WestervilleandGreenvillepubliclibrariesforseveralreasons.First, Finnell'sestimates likelyunderstatetheactualrateofunderblockingbecausepatrons,whoknewthatfiltering programswereoperatingintheGreenvilleandWestervilleLibraries,mayhaverefrained fromattemptingtoaccesssiteswithsexuallyexplicitmaterials,orothercontentsthatthey knewwouldprobablymeetafilteringprogram'sblockedcategories.Second,andmost

importantly, wethink that the formula that Finnellused to calculate the rate of under blocking in the set wolibraries is not as meaning ful as the formula that information scient is tstypically use to calculate a rate of recall , which we describe above in Subsection II.E.3. As Dr. Nunbergexplained, the standard method that informations cient is tsus eto calculate a rate of recall is to sort a set of items into two groups, those that fall into a particular category (e.g., those that should have been blocked by a filter) and those that do not. The rate of recall is then calculated by dividing the number of items that the system correctly identified as belonging to the category by the total number of items in the category.

Intheexampleabove, we discussed a database that contained 1000 photographs. Assume that 2000 of the sephotographs were pictures of dogs. If, for example, a classification system designed to identify pictures of dogs identified 80 of the dog pictures and failed to identify 120, it would have performed with a recall rate of 40%. To calculate the recall rate of the filters in the Wester ville and Green ville public libraries in accordance with the standard method described above, Finnell should have taken a sample of sites from the libraries 'Internet use logs (including both sites that were blocked and sites that were not), and divided the number of sites in the sample that the filter incorrectly failed to block by the total number of sites in the sample that should have been blocked. What Finnell did instead was totake a sample of sites that were not blocked, and divide the

totalnumberofsitesinthissamplebythenumberofsitesinthesamplethatshouldhave beenblocked. This made the denominator that Finnellused much larger than it would have been had he used the standard method for calculating recall, consequently making the underblocking rate that he calculated much lower than it would have been under the standard method. <sup>12</sup>

Moreover, despite the relatively low rates of underblocking that Finnell's study found, librarians from several of the libraries proffered by defendants that use blocking products, including Greenville, Tacoma, and Westerville, testified that there are instances of underblocking in their libraries. No quantitative evidence was presented comparing the effectiveness of filters and other alternative methods used by libraries to prevent patrons from accessing visual depictions that are obscene, child pornography, or in the case of minors, harmful to minors.

Biekundertookasimilarstudyoftheoverblockingratesthatresultfromthe
TacomaLibrary'suseoftheCyberPatrolsoftware.Hebeganwiththe3,733individual

<sup>&</sup>lt;sup>12</sup>Toillustratethetwodifferentmethods, considerarandomsampleof 1010 websites takenfromalibrary's Internetuselog, 10 of which fall within the category that a filter is intended to block (e.g., pornography), and suppose that the filter incorrectly failed to block 20 fthe 10 sites that it should have blocked and did not block any sites that should not have been blocked. The standard method of quantifying the rate of under blocking would divide the number of sites in the sample that the filter incorrectly failed to block by the number of sites in the sample of 20%. Finnell's study, however, calculated the under blocking rate by dividing the number of sites that the filter incorrectly failed to block by the total number of sites in the sample that we renot blocked (whether correctly or incorrectly) yielding an under blocking rate in this example of only. 2%.

blocksthatoccurredintheTacomaLibraryinOctober2000anddrewfromthisdataseta randomsampleof786URLs.Hecalculatedtworatesofoverblocking,onewithrespect totheTacomaLibrary'spolicyonInternetuse— thatthepictorialcontentofthesitemay notinclude"graphicmaterialsdepictingfullnudityandsexualactswhichareportrayed obviouslyandexclusivelyforsensationalorpornographicpurposes"—andtheotherwith respecttoCyberPatrol'sowncategorydefinitions. HeestimatedthatCyberPatrol overblocked4%ofallWebpagesinOctober2000withrespecttothedefinitionsofthe TacomaLibrary'sInternetPolicyand2%ofallpageswithrespecttoCyberPatrol'sown categorydefinitions. 13

ItisdifficulttodeterminehowreliableBiek'sconclusionsare,becausehedidnot keeprecordsoftherawdatathatheusedinhisstudy;nordidhearchiveimagesofthe Webpagesastheylookedwhenhemadethedeterminationwhethertheywereproperly classifiedbytheCyberPatrolprogram.Withoutthisinformation,itisimpossibleto verifyhisconclusions(ortounderminethem).AndBiek'sstudycertainlyunderstates CyberPatrol'soverblockingrateforsomeofthesamereasonsthatFinnell'sstudylikely understatesthetrueratesofoverblockingusedinthelibrariesthathestudied.

 $We also note that Finnell's study, which analyzed a set of Internet logs from the \\ Tacoma Library during which the same filtering program was operating with the same set of blocking categories enabled, found a significantly higher rate of overblocking than the \\$ 

 $<sup>^{13}</sup> According to Biek, the sample size that he used yielded a 95\% confidence interval of plusor minus 3.11\%.$ 

Biekstudydid.Biekfoundarateofoverblockingofapproximately2% whiletheFinnell studyestimateda6.34% rateofoverblocking. Atallevents, the category definitions employed by CIPA, at least with respect to adultuse—visual depictions that are obscene or childpornography—are narrower than the materials prohibited by the Tacoma Library policy, and therefore Biek's study under states the rateofover blocking with respect to CIPA's definitions for adults.

Insum,wethinkthatFinnell'sstudy,whilewedonotcredititsestimatesof underblocking,isusefulbecauseitstateslowerboundswithrespecttotheratesof overblockingthatoccurredwhentheCyberPatrol,Websense,andN2H2filterswere operatinginpubliclibraries.Whiletheseratesaresubstantial—betweennearly6% and 15%—wethink,forthereasonsstatedabove,thattheygreatlyunderstatetheactualrates of overblockingthatoccurs,andthereforecannotbeconsideredasanythingmorethan minimumestimatesoftheratesofoverblockingthathappensinallfilteringprograms.

#### ${\bf 5.} Methods of Obtaining Examples of Erroneously Blocked Web Sites$

TheplaintiffsassembledalistofseveralthousandWebsitesthattheycontend were, atthetimeofthestudy, likelytohavebeenerroneouslyblockedbyoneormoreof fourmajorcommercial filtering programs: Surf Control Cyber Patrol 6.0.1.47, N2H2 Internet Filtering 2.0, Secure Computing Smart Filter 3.0.0.01, and Websense Enterprise 4.3.0. They compiled this list using a two-step process. First, Benjamin Edelman, an expert witness who testified before us, compiled a list of more than 500,000 URLs and

devisedaprogramtofeedthemthroughallfourfilteringprogramsinordertocompilea listofURLsthatmighthavebeenerroneouslyblockedbyoneormoreoftheprograms. Second,Edelmanforwardedsubsetsofthelistthathecompiledtolibrariansand professorsoflibrarysciencewhomtheplaintiffshadhiredtoreviewtheblockedsitesfor suitabilityinthepubliclibrarycontext.

EdelmanassembledthelistofURLsbycompilingWebpagesthatwereblocked bythefollowingcategoriesinthefourprograms:CyberPatrol:Adult/SexuallyExplicit; N2H2:AdultsOnly,Nudity,Pornography,andSex,with"exceptions"engagedinthe categoriesofEducation,ForKids,History,Medical,Moderated,andText/SpokenOnly; SmartFilter:Sex,Nudity,Mature,andExtreme;Websense:AdultContent,Nudity,and Sex.

EdelmanthenassembledadatabaseofWebsitesforpossibletesting.Hederived thislistbyautomaticallycompilingURLsfromtheYahooindexofWebsites,taking themfromcategoriesfromtheYahooindexthatdifferedsignificantlyfromthe classificationsthathehadenabledineachoftheblockingprograms(taking,forexample, WebsitesfromYahoo's "Government" category). Hethenexpandedthis listbyentering URLstakenfromtheYahooindexintotheGooglesearchengine's "related" search function, which provides the user with a list of similar sites. Edelman also included and

<sup>&</sup>lt;sup>14</sup>EdelmanisaHarvardUniversitystudentandasystemsadministratorand multimediaspecialistattheBerkmanCenterforInternetandSocietyatHarvardLaw School.DespiteEdelman'syoungage,hehasbeendoingconsultingworkonInternet-relatedissuesfornineyears,sincehewasinjuniorhighschool.

excluded specific Websites at the request of the plaint iffs' counsel.

Takingthelistofmorethan500,000 URLsthathehadcompiled, Edelmanusedan automatedsystemthathehaddevelopedtotestwhetherparticularURLswereblockedby each of the four filtering programs. This testing took place between February and October 2001. Here corded the specific dates on which particular sites were blocked by particular programs, and, using commercial archivings of tware, archived the contents of thehomepageoftheblockedWebsites(andinsomeinstancesthepageslinkedtofrom thehomepage)asitexistedwhenitwasblocked. <sup>15</sup>Throughthisprocess, Edelman, whosetestimonywecredit,compiledalistof6,777URLsthatwereblockedbyoneor more of the four programs. Because these sites were chosen from categories from the Yahoodirectorythatwereunrelatedtothefilteringcategoriesthatwereenabledduring thetest(i.e., "Government" vs. "Nudity"), hereasoned that they were likely erroneously blocked. As explained in the margin, Edelman repeated his testing and discovered that CyberPatrolhadunblockedmostofthepagesonthelistof6,777afterhehadpublished thelistonhisWebsite.HisrecordsindicatethatanemployeeofSurfControl(the companythatproducesCyberPatrolsoftware)accessedhissiteandpresumablychecked outtheURLsonthelist,thusconfirmingEdelman's judgmentthat the majority of URLs

 $<sup>^{15}</sup> The archiving process in some cases took up to 48 hours from when the page was blocked. \\$ 

onthelistwereerroneouslyblocked. 16

EdelmanforwardedthelistofblockedsitestoDr.JosephJanes,anAssistant
ProfessorintheInformationSchooloftheUniversityofWashingtonwhoalsotestifiedat
trialasanexpertwitness.JanesreviewedthesitesthatEdelmancompiledtodetermine
whethertheyareconsistentwithlibrarycollectiondevelopment,i.e.,whethertheyare
sitestowhichareferencelibrarianwould,consistentwithprofessionalstandards,directa
patronasasourceofinformation.

AnneLipow,apracticinglibrarianformorethan 30 years and the director of a library consulting firm, also reviewed the same list of 204 URLs from the set that Edelmanhad collected for their appropriateness for a library's collection. She categorized sites in four different levels according to their appropriateness for a public

<sup>&</sup>lt;sup>16</sup>InOctober2001,EdelmanpublishedtheresultsofhisinitialtestingonhisWeb site.InFebruaryandMarch2002herepeatedhistestingofthe6,777URLsoriginally foundtobeblockedbyatleastoneoftheblockingproducts,inordertodetermine whetherandtowhatextenttheblockingproductvendorshadcorrectedthemistakesthat hepublicized.OfthoseURLsblockedbyN2H2intheOctober2001testing,55.10% remainedblockedwhentestedbyEdelmaninMarch2002.OfthoseURLsblockedby WebsenseintheOctober2001testing,76.28% remainedblockedwhentestedby EdelmaninFebruary2002.OfthoseURLsblockedbySurfControl'sCyberPatrol product,only7.16% remainedblocked,i.e.,CyberPatrolhadunblockedalmost93% of theWebpagesoriginallyblocked.BecausetheresultspostedtohisWebsitewere accessedbyanemployeeofSurfControl(asevidencedbyEdelman'srecordsofwhowas accessinghisWebsite),weinferthatCyberPatrolhaddeterminedthat93% ofall6,777 pages,or6,302Webpages,wereoriginallywronglyblockedbytheproduct.

<sup>&</sup>lt;sup>17</sup>TwootherexpertwitnessesreviewedsubsetsofthelistofWebpagesthatEdelman compiled.Dr.MichaelT.Ryan,DirectoroftheRareBookandManuscriptLibraryand oftheCenterforElectronicTextandImageattheUniversityofPennsylvania,revieweda listof204sitesthatEdelmanforwardedtohiminordertodeterminetheirappropriateness andusefulnessinthelibrarysetting.BecausethesitesthatRyanreviewedwerenot selectedrandomly(i.e.,theywerechosenbyplaintiffs'counsel),hisstudysayslittle aboutthecharacterofthesetof6,777sitesthatEdelmancompiled,orthetotalamountof overblockingbythefourfilteringprogramsthatEdelmanused.

EdelmanforwardedJanesalistof6,775Websites,almosttheentirelistof blockedsitesthathecollected,fromwhichJanestookarandomsampleof859usingthe SPSSstatisticalsoftwarepackage.Janesindicatedthathechoseasamplesizeof859 becauseitwouldyielda95%confidenceintervalofplusorminus2.5%.Janesrecruited agroupof16reviewers,mostofwhomwerecurrentorformerstudentsattheUniversity ofWashington'sInformationSchool,tohelphimidentifywhichsiteswereappropriate forlibraryuse.Wedescribetheprocessthatheusedinthemargin.

Although the methodology used to select the list of Webpages that was forwarded to Ryan and Lipowis problematic, Ryan's and Lipow's testimony established that many of the erroneously blocked sites that Edelmanidentified would be useful and appropriate sources of information for library patrons.

Inthefirstround, each person evaluated two sets of around 80 sites, and each group was evaluated by two different people. Each set of sites included the following instructions:

LookcarefullyateachoftheWebsitesonthelist.Pleasemakeanotationofanysitethat appearstomeet **any** ofthefollowingcriteria:

a. Contains information similar to that already found in libraries,

or

library's collection. Again, because these URLs were not selected randomly, Lipow's study is not particularly relevant to the total set that Edelman compiled, or to the total amount of overblocking by the four filtering programs that Edelman used.

<sup>&</sup>lt;sup>18</sup>AllofthereviewersthatJanesrecruitedhadsomerelevantexperienceinlibrary referenceservicesorlibrarycollectiondevelopment.Janesdividedthereviewersintotwo groups,agroupof11lessexperiencedreviewers,andagroupoffivemoreexperienced reviewers.Janesassignedthelessexperiencedgrouptodoafirst-roundreviewwiththe purposeofidentifyingthemostobviouslyoverblockedsites.Themoreexperienced groupwastoreviewtheremainingsites(i.e.,thosethatwerenotobviouslyoverblocked) andtomakefinaldecisionsregardingthesesites.

theinabilityofamemberofJanes's review team to complete the reviewing process, Janes had to cut 157 Websites out of the sample, but because the Websites were randomly assigned to reviewers, it is unlikely that these sites differed significantly from the rest of the sample. That left the sample size at 699, which wide ned the 95% confidence interval to plus or minus 2.8%.

Ofthetotal699sitesreviewed,Janes'steamconcludedthat165ofthem,or23.6% percentofthesample,werenotofanyvalueinthelibrarycontext(i.e.,nolibrarian

b.Containsinformationalibrarianwouldwantinthelibraryifs/hehad unlimitedfundstopurchaseinformationandunlimitedshelfspace,

or

c. Youwouldbewillingtoreferapatron(ofanyage)tothesiteifthe patronappearedatareferencedeskseekinginformationaboutthesubjectof thesite. Forthislastcriterion, were cognize that you might not refera young child to a Calculus site just be cause it would not be useful to that child, but you should ignore that factor. Informational sites, such as a Calculus site, should be noted. A site that is purely erotic as hould not be noted.

Sitesthatreceived "Yes" votes from both reviewers were determined to be of sufficient interestinalibrary context and removed from further analysis. Sites receiving one or two "No" votes would go to the next round. In the first round, 243 sites received "Yes" votes from both reviewers, while 456 sites received one or more "No" votes or could not be found. These 456 sites were sent forward to the second round of judging.

Theinstructionsforthesecond-roundreviewerswerethesameasthosegivento thefirst-roundreviewers, exceptthatinsectionc, thefollowingsentencewas added: "Sitesthathaveacommercial purposes hould be included hereif they might be of use or interest to some one wishing to buy the productors ervice or doing research on commercial behavior on the Internet, much as most libraries include the Yellow Pages in their collections." These condround of review produced the following results: 60 sites could not be found (due to broken links, 404 "not found" errors, domain for sale messages, etc.), 231 sites were judged "Yes," and 165 judged "No."

would, consistent with professional standards, referapatron to these sites as a source of information). They were unable to find 60 of the Websites, or 8.6% of the sample. Therefore, they concluded that the remaining 474 Websites, or 67.8% of the sample, were examples of overblocking with respect to material sthat are appropriate sources of information in public libraries. Applying a 95% confidence interval of plus or minus 2.8%, the study concluded that we can be 95% confident that the actual percentage of sites in the list of 6,775 sites that are appropriate for use in public libraries is somewhere between 65.0% and 70.6%. In other words, we can be 95% certain that the actual number of sites out of the 6,775 that Edelman forwarded to Janesthat are appropriate for use in public libraries (under Janes's standard) is somewhere between 4,403 and 4,783.

ThegovernmentraisedsomevalidcriticismsofJanes'smethodology,attackingin particularthefactthat, whilesitesthatreceivedtwo"yes"votesinthefirstroundof votingweredeterminedtobeofsufficientinterestinalibrarycontexttoberemovedfrom furtheranalysis,sitesreceivingoneortwo"no"votesweresenttothenextround. The governmentalsocorrectlypointsoutthatresultsofJanes'sstudycanbegeneralizedonly tothepopulationof6,775sitesthatEdelmanforwardedtoJanes. Eventakingthese criticismsintoaccount,anddiscountingJanes'snumbersappropriately,wecreditJanes's studyasconfirmingthatEdelman'ssetof6,775Websitescontainsatleastafew thousandURLsthatwereerroneouslyblockedbyoneormoreofthefourfiltering programsthatheused,whetherjudgedagainstCIPA'sdefinitions,thefilters'own

categorycriteria, oragainst the standard that the Janesstudy used. Edelmantested only 500,000 unique URL sout of the 4000 times that many, or two billion, that are estimated to exist in the indexable Web. Even assuming that Edelman chose the URL sthat were most likely to be erroneously blocked by commercial filtering programs, we conclude that many times the number of pages that Edelmanidentified are erroneously blocked by one or more of the filtering programs that he tested.

Edelman's and Janes's studies provide numerous specific examples of Webpages that were erroneously blocked by one or more filtering programs. The Webpages that were erroneously blocked by one or more of the filtering programs do not fall into any neat patterns; they range widely in subject matter, and it is difficult to tell why they may have been overblocked. The list that Edelman compiled, for example, contains Webpages relating to religion, politics and government, health, care ers, education, travel, sports, and many other topics. In the next section, we provide examples from each of the secategories.

## 6.ExamplesofErroneouslyBlockedWebSites

SeveraloftheerroneouslyblockedWebsiteshadcontentrelatingtochurches, religiousorders,religiouscharities,andreligiousfellowshiporganizations. These includedthefollowingWebsites:theKnightsofColumbusCouncil4828,aCatholic men'sgroupassociatedwithSt.Patrick'sChurchinFallon,Nevada, <a href="http://msnhomepages.talkcity.com/SpiritSt/kofc4828">http://msnhomepages.talkcity.com/SpiritSt/kofc4828</a>,whichwasblockedbyCyberPatrol

inthe "Adult/SexuallyExplicit" category; the Agape Church of Searcy, Arkansas, <a href="http://www.agapechurch.com">http://www.agapechurch.com</a>, which was blocked by Websenseas "Adult Content"; the homepage of the Lesbian and Gay Havurah of the Long Beach, California Jewish Community Center, <a href="http://www.compupix.com/gay/havurah.htm">http://www.compupix.com/gay/havurah.htm</a>, which was blocked by N2H2 as "Adults Only, Pornography, "by Smartfilteras "Sex," and by Websenseas "Sex"; Orphanage Emmanuel, a Christian orphanage in Honduras that houses 225 children, <a href="http://home8.inet.tele.dk/rfb\_viva">http://home8.inet.tele.dk/rfb\_viva</a>, which was blocked by Cyber Patrolin the "Adult/Sexually Explicit" category; Vision Art Online, which sells wooden wall hangings for the homethat contain prayers, passages from the Bible, and images of the Starof David, <a href="http://www.visionartonline.com">http://www.visionartonline.com</a>, which was blocked in Websense's "Sex" category; and the home page of Tenzin Palmo, a Buddhist nun, which contained a description of her project to build a Buddhist nunnery and international retreat center for women, <a href="http://www.tenzinpalmo.com">http://www.tenzinpalmo.com</a>, which was categorized as "Nudity" by N2H2.

Severalblockedsitesalsocontainedinformationaboutgovernmentalentitiesor specificpoliticalcandidates,orcontainedpoliticalcommentary. These included: the Web site for Kelley Ross, a Libertarian candidate for the California State Assembly, <a href="http://www.friesian.com/ross/ca40">http://www.friesian.com/ross/ca40</a>, which N2H2 blocked as "Nudity"; the Website for Bob Coughlin, atownselect manin Dedham, Massachusetts, <a href="http://www.bobcoughlin.org">http://www.bobcoughlin.org</a>, which was blocked under N2H2's "Nudity" category; a list of Websites containing information about government and politics in Adams County,

Pennsylvania, <a href="http://www.geocities.com/adamscopa">http://www.geocities.com/adamscopa</a>, whichwasblocked byWebsenseas "Sex"; theWebsiteforWisconsinRighttoLife, <a href="http://www.wrtl.org">http://www.wrtl.org</a>, whichN2H2 blockedas "Nudity"; aWebsitethatpromotes federalisminUganda, <a href="http://federo.com">http://federo.com</a>, whichN2H2 blockedas "AdultsOnly, Pornography"; "Fightthe Death Penalty in the USA," aDanish Websitededicated to criticizing the American system of capital punishment, <a href="http://www.fdp.dk">http://www.fdp.dk</a>, which N2H2 blockedas "Pornography"; and "Dumb Laws," ahumor Websitethat makes funo fout moded laws, <a href="http://www.dumblaws.com">http://www.dumblaws.com</a>, which N2H2 blocked under its "Sex" category.

ErroneouslyblockedWebsitesrelatingtohealthissuesincludedthefollowing:a guidetoallergies, <a href="http://www.x-sitez.com/allergy">http://www.x-sitez.com/allergy</a>, whichwascategorizedas "Adults Only,Pornography" byN2H2; ahealthquestionandanswersitesponsored byColumbia University, <a href="http://www.goaskalice.com.columbia.edu">http://www.goaskalice.com.columbia.edu</a>, whichwasblockedas "Sex" by N2H2, and as "Mature" bySmartfilter; the Western Amputee Support Alliance Home Page, <a href="http://www.usinter.net/wasa">http://www.usinter.net/wasa</a>, whichwasblocked byN2H2as "Pornography"; the Website of the Willis-Knight on Cancer Center, a Shreve port, Louisian a cancertreatment facility, <a href="http://cancerftr.wkmc.com">http://cancerftr.wkmc.com</a>, which was blocked by Websense under the "Sex" category; and a site dealing with halitosis, <a href="http://www.dreamcastle.com/tungs">http://www.dreamcastle.com/tungs</a>, which was blocked by N2H2as "Adults, Pornography," by Smartfilter as "Sex," by Cyber Patrolas "Adult/Sexually Explicit," and by Websense as "Adult Content."

The filteringprogramsalsoerroneouslyblockedseveralWebsiteshavingtodo

witheducationandcareers. The filtering programs blocked two sites that provide information on homeschooling. "HomEduStation—the Internet Source for Home Education," <a href="http://www.perigee.net/~mcmullen/homedustation/">http://www.perigee.net/~mcmullen/homedustation/</a>, was categorized by Cyber Patrolas "Adult/Sexually Explicit." Smart filter blocked "Apricot: A Website made by and for homeschoolers," <a href="http://apricotpie.com,as" Sex." The programs also miscategorized several career-related sites. "Social Work Search," <a href="http://www.socialworksearch.com/">http://apricotpie.com,as "Sex." The programs also miscategorized several career-related sites. "Social Work Search,"

<a href="http://www.socialworksearch.com/">http://apricotpie.com,as "Sex." The programs also miscategorized several career-related sites. "Social Work Search,"

<a href="http://www.socialworksearch.com/">http://www.socialworksearch.com/</a>, is a directory for social workers that Cyber Patrol placed in its "Adult/Sexually Explicit" category. The "Gayand Lesbian Chamber of Southern Nevada,"

<a href="http://www.lambdalv.com,">http://www.lambdalv.com,</a> "aforum for the business community to develope lationships within the Las Vegas lesbian, gay, transsexual, and bis exual community" was blocked by N2H2 as "Adults Only, Pornography." As it eforas piring dentists, <a href="http://www.vvm.com/~bond/home.htm">http://www.vvm.com/~bond/home.htm</a>, was blocked by Cyber Patrolinits "Adult/Sexually Explicit" category.

ThefilteringprogramserroneouslyblockedmanytravelWebsites,including:the
WebsitefortheAllenFarmhouseBed&BreakfastofAlleghanyCounty,NorthCarolina,

<a href="http://planet-nc.com/Beth/index.html">http://planet-nc.com/Beth/index.html</a>,whichWebsenseblockedas"AdultContent";

OdysseusGayTravel,atravelcompanyservinggaymen, <a href="http://www.odyusa.com">http://www.odyusa.com</a>,which

N2H2categorizedas"AdultsOnly,Pornography";SouthernAlbertaFlyFishing

Outfitters, <a href="http://albertaflyfish.com">http://albertaflyfish.com</a>,whichN2H2blockedas"Pornography";and"Nature

andCultureConsciousTravel,"atouroperatorinNamibia, <a href="http://www.trans-namibia-">http://www.trans-namibia-</a>

tours.com, which was categorized as "Pornography" by N2H2.

ThefilteringprogramsalsomiscategorizedalargenumberofsportsWebsites.

Theseincluded:asitedevotedtoWillieO'Ree,thefirstAfrican-Americanplayerinthe

NationalHockeyLeague, <a href="http://www.missioncreep.com/mw/oree.html">http://www.missioncreep.com/mw/oree.html</a>,whichWebsense

blockedunderits"Nudity"category;thehomepageoftheSydneyUniversityAustralian

FootballClub, <a href="http://www.tek.com.au/suafc">http://www.tek.com.au/suafc</a>,whichN2H2blockedas"AdultsOnly,

Pornography,"Smartfilterblockedas"Sex,"CyberPatrolblockedas"Adult/Sexually

Explicit"andWebsenseblockedas"Sex";andafan'spagedevotedtotheTorontoMaple

Leafshockeyteam, <a href="http://www.torontomapleleafs.atmypage.com">http://www.torontomapleleafs.atmypage.com</a>,whichN2H2blocked underthe"Pornography"category.

# 7. Conclusion: The Effectiveness of Filtering Programs

Publiclibrarieshaveadoptedavarietyofmeansofdealingwithproblemscreated bytheprovisionofInternetaccess. Thelargeamountofsexuallyexplicitspeechthatis freelyavailableontheInternethas,tovaryingdegrees,ledtopatroncomplaintsabout suchmattersasunsoughtexposuretooffensivematerial,incidentsofstaffandpatron harassmentbyindividualsviewingsexuallyexplicitcontentontheInternet,andtheuseof librarycomputerstoaccessillegalmaterial,suchaschildpornography. Insomelibraries, youthfullibrarypatronshavepersistentlyattemptedtousetheInternettoaccesshardcore pornography.

Thosepubliclibraries that have responded to these problems by using software

filtershavefoundsuchfilterstoprovidearelativelyeffectivemeansofpreventing patronsfromaccessingsexuallyexplicitmaterialontheInternet.Nonetheless,outofthe entireuniverseofspeechontheInternetfallingwithinthefilteringproducts' category definitions,thefilterswillincorrectlyfailtoblockasubstantialamountofspeech.Thus, softwarefiltershavenotcompletelyeliminatedtheproblemsthatpubliclibrarieshave soughttoaddressbyusingthefilters,asevidencedbyfrequentinstancesof underblocking.Noristhereanyquantitativeevidenceoftherelativeeffectivenessof filtersandthealternativestofiltersthatarealsointendedtopreventpatronsfrom accessingillegalcontentontheInternet.

Evenmoreimportantly(forthiscase), althoughsoftwarefilters provide a relatively cheapand effective, albeit imperfect, means for public libraries to prevent patrons from accessing speech that falls within the filters' category definitions, we find that commercially available filtering programs erroneously block a huge amount of speech that is protected by the First Amendment. Any currently available filtering product that is reasonably effective in preventing users from accessing content within the filter's category definitions will necessarily block countless thousands of Webpages, the content of which does not match the filtering company's category definitions, much less the legal definitions of obscenity, child pornography, or harmful to minors. Even Finnell, an expert witness for the defendants, found that between 6% and 15% of the blocked Web sites in the public libraries that he analyzed did not contain content that meets even the

filtering products' own definitions of sexually explicit content, let alone CIPA's definitions.

Thisphenomenonoccurs for a number of reasons explicated in the more detailed findings of fact supra. These included imitations on filtering companies ability to: (1) harvest Webpages for review; (2) review and categorize the Webpages that they have harvested; and (3) engage in regular re-review of the Webpages that they have previously reviewed. The primary limitations on filtering companies ability to harvest Webpages for reviewist hat a substantial majority of pages on the Webarenotind exable using the spidering technology that Websear chengines use, and that together, sear chengines have indexed only around half of the Webpages that are theoretically indexable. The fast rate of growth in the number of Webpages also limits filtering companies ability to harvest pages for review. These short coming snecessarily result in significant under blocking.

Severallimitationsonfilteringcompanies' abilitytoreviewandcategorizethe
Webpagesthattheyhaveharvestedalsocontributetoover-andunderblocking. First,
automatedreviewprocesses, eventhosebasedon "artificialintelligence," areunable with
anyconsistencytodistinguishaccuratelymaterial that falls within acategory definition
from material that does not. Moreover, human review of URLs is hampered by filtering
companies' limited staff sizes, and by human error or misjudgment. In order to deal with
the vast size of the Webandits rapid rates of growth and change, filtering companies
engage in several practices that are necessary to reduce underblocking, but in evitably

resultinoverblocking. These include: (1) blocking whole Websites even when only a small minority of their pages contain material that would fit under one of the filtering company's categories (e.g., blocking the Salon. comsite because it contains as excolumn); (2) blocking by IP address (because a single IP address may contain many different Websites and many thousands of pages of heterogenous content); and (3) blocking loop holes it essuch as translators it es and cache sites, which archive Webpages that have been removed from the Webby their original publisher.

Finally, filtering companies' failure to engage in regular re-review of Webpages that they have already categorized (or that they have determined do not fall into any category) results in a substantial amount of over-and under blocking. For example, Webpublishers change the contents of Webpages frequently. The problem also arises when a Websitegoes out of existence and its domain name or IP address is reassigned to a new Website publisher. In that case, a filtering company's previous categorization of the IP address or domain name would likely be in correct, potentially resulting in the over-or under blocking of many thousands of pages.

Theinaccuracies that result from the selimitations of filtering technology are quite substantial. At least tens of thousands of pages of the indexable Webare overblocked by each of the filtering programs evaluated by experts in this case, even when considered against the filtering companies' own category definitions. Manyerrone ously blocked pages contain content that is completely inno cuous for both adults and minors, and that no

rational person could conclude matches the filtering companies' category definitions, such as "pornography" or "sex."

Thenumberofoverblockedsitesisofcoursemuchhigherwithrespecttothe definitionsofobscenityandchildpornographythatCIPAemploysforadults, sincethe filteringproducts' category definitions, such as "sex" and "nudity," encompass vast amounts of Webpagesthatareneither childpornography no robscene. Thus, the number of pages of constitutionally protected speech blocked by filtering products far exceeds the many thousands of pages that are overblocked by reference to the filtering products' category definitions.

Nopresentlyconceivabletechnologycanmakethejudgmentsnecessaryto determinewhetheravisualdepictionfitsthelegaldefinitionsofobscenity,child pornography,orharmfultominors. Giventhestateoftheartinfilteringandimage recognitiontechnology, and the rapidlychangingandex panding nature of the Web, we find that filtering products' shortcomings will not be solved through a technical solution in the foresee able future. 

19 Insum, filtering products are currently unable to block only

<sup>&</sup>lt;sup>19</sup>Althoughitwasnotprofferedasevidenceinthistrial,(andhencewedonotrelyon ittoinformourfindings),wenotethat *Youth,Pornography,andtheInternet*, a congressionallycommissionedstudybytheNationalResearchCouncil,adivisionofthe NationalAcademiesofScience, *see* Pub.L.105-314,TitleX,Sec.901,comestoa conclusionsimilartotheonethatwereachregardingtheeffectivenessofInternetfilters. Thecommissionconcludesthat:

Allfilters—thoseoftodayandfortheforeseeablefuture—suffer(andwill suffer)fromsomedegreeofoverblocking(blockingcontentthatshouldbe allowedthrough)andsomedegreeofunderblocking(passingcontentthat

visualdepictionsthatareobscene, childpornography, or harmfultominors (or, only content matching a filtering product's category definitions) while simultaneously allowing access to all protected speech (or, all content not matching the blocking product's category definitions). Any software filter that is reasonably effective in blocking access to Webpagesthat fall within its category definitions will necessarily erroneously block a substantial number of Webpagesthat do not fall within its category definitions.

# III.AnalyticFrameworkfortheOpinion:TheCentralityof DoleandtheRoleof theFacialChallenge

Boththeplaintiffsandthegovernmentagreethat, because this case involves a challenge to the constitutionality of the conditions that Congress has set on state actors' receipt of federal funds, the Supreme Court's decision in South Dakotav. Dole ,483 U.S. 203 (1987), supplies the proper threshold an alytic framework. The constitution also urce of Congress's spending power is Article I, §8, cl. 1, which provides that "Congress shall have Power... to pay the Debtsand provide for the common Defence and general Welfare of the United States." In Dole, the Court up held the constitutionality of a federal

shouldnotbeallowedthrough). While the extent of overblocking and underblocking will vary with the product (and may improve overtime), underblocking and overblocking result from numerous sources, including the variability in the perspectives that humans bring to the task of judging content.

*Youth, Pornography, and the Internet* (Dick Thornburgh & Herbert S. Lin, eds., 2002), *available at* <a href="http://bob.nap.edu/html/youth\_internet/">http://bob.nap.edu/html/youth\_internet/</a>.

statuterequiringthewithholdingoffederalhighwayfundsfromanystatewithadrinking agebelow21. *Id*.at211-12.Insustainingtheprovision'sconstitutionality, *Dole* articulatedfourgeneralconstitutionallimitationsonCongress'sexerciseofthespending power.

First, "theexerciseofthespendingpowermustbeinpursuitof thegeneral welfare." *Id.* at 207. Second, any conditions that Congress sets on states' receipt of federal funds must be sufficiently clear to enable recipients "to exercise their choice knowingly, cognizant of the consequences of their participation." *Id.* (internal quotation marks and citation omitted). Third, the conditions on the receipt of federal funds must be arsomerelation to the purpose of the funding program. *Id.* And finally, "other constitutional provisions may provide an independent bar to the conditional grant of federal funds." *Id.* at 208. In particular, the spending power "may not be used to induce the State stoen gage in activities that would them selves be unconstitutional. Thus, for example, a grant of federal funds conditioned on invidiously discriminatory state action or the infliction of cruel and unusual punish ment would be an illegitimate exercise of the Congress' broad spending power." *Id.* at 210.

PlaintiffsdonotcontendthatCIPArunsafoulofthefirstthreelimitations.

However,theydoallegethatCIPAisunconstitutionalunderthefourthprongof

Dole
becauseitwillinducepubliclibrariestoviolatetheFirstAmendment.

20 Plaintiffs

 $<sup>^{20}</sup> Because we find that the plaint if fpublic libraries are funded and controlled by state and local governments, they are state actors, subject to the constraints of the First$ 

thereforesubmitthattheFirstAmendment"provide[s]anindependentbartothe conditionalgrantoffederalfunds"createdbyCIPA. *Id.*at208.Morespecifically,they arguethatbyconditioningpubliclibraries'receiptoffederalfundsontheuseofsoftware filters,CIPAwillinducepubliclibrariestoviolatetheFirstAmendmentrightsofInternet content-providerstodisseminateconstitutionallyprotectedspeechtolibrarypatronsvia theInternet,andthecorrelativeFirstAmendmentrightsofpubliclibrarypatronsto receiveconstitutionallyprotectedspeechontheInternet.

Thegovernmentconcedesthatunderthe *Dole*framework,CIPAisfaciallyinvalid ifitsconditionswillinducepubliclibrariestoviolatetheFirstAmendment.The governmentandtheplaintiffsdisagree,however,onthemeaningof *Dole*'s "inducement" requirementinthecontextofaFirstAmendmentfacialchallengetotheconditionsthat Congressplacesonstateactors' receiptoffederalfunds. Thegovernmentcontendsthat becauseplaintiffsarebringingafacialchallenge,theymustshowthatunderno circumstancesisitpossibleforapubliclibrarytocomplywithCIPA's conditions without

Amendment, as incorporated by the Due Process Clause of the Fourteenth Amendment.

<sup>&</sup>lt;sup>21</sup>TheSupremeCourthasrecognizedthattheFirstAmendmentencompassesnotonly therighttospeak,butalsotherighttoreceiveinformation. *See Renov.ACLU*,521U.S. 844,874(1997)(invalidatingastatutebecauseit"effectivelysuppressesalargeamount ofspeechthatadultshaveaconstitutionalrighttoreceiveandtoaddresstooneanother"); *Stanleyv.Georgia*,394U.S.557,564(1969)("[The]righttoreceiveinformationand ideas,regardlessoftheirsocialworth...isfundamentaltoourfreesociety."); *seealso Bd.ofEduc.v.Pico*,457U.S.853,867-68(1982)(pluralityopinion)("[T]herightto receiveideasfollowsineluctablyfromthe *sender*'sFirstAmendmentrighttosend them.").

violatingtheFirstAmendment.Theplaintiffsrespondthatevenifitispossibleforsome publiclibrariestocomplywithCIPAwithoutviolatingtheFirstAmendment,CIPAis faciallyinvalidifit"willresultintheimpermissiblesuppressionofasubstantialamount ofprotectedspeech."

Becauseitwasclearin Dolethatthestatescouldcomplywiththechallenged conditionsthatCongressattachedtothereceiptoffederalfundswithoutviolatingthe Constitution, the DoleCourtdidnothaveoccasiontoexplainfullywhatitmeansfor Congresstousethespendingpowerto"induce[recipients]toengageinactivitiesthat wouldthemselvesbeunconstitutional." Dole, 483U.S. at 210; see id. at 211 ("Were SouthDakotatosuccumbtotheblandishmentsofferedbyCongressandraiseitsdrinking ageto 21, the State's action in sodoing would not violate the constitutional rights of anyone."). Although the proposition that Congress may not pay state actors to violate citizens' First Amendment rights is unexceptionable when stated in the abstract, it is unclear what exactly altigant must establish to facially invalidate an exercise of Congress' spending power on this ground.

Ingeneral, it is well-established that a court may sustain a facial challenge to a statute only if the plaint if fdemonstrates that the statute admits of no constitution al application. See United States v. Salerno ,481U.S.739,745 (1987) ("Afacial challenge to a legislative Actis, of course, the most difficult challenge to mount successfully, since the challenger must establish that no set of circumstances exists under which the Act

wouldbevalid."); seealso Bowenv.Kendrick ,487U.S.589,612(1988)("Ithasnotbeen theCourt'spractice,inconsideringfacialchallengestostatutesofthiskind,tostrike themdowninanticipationthatparticularapplicationsmayresultinunconstitutionaluse offunds.")(internalquotationmarksandcitationomitted).

FirstAmendmentoverbreadthdoctrinecreatesalimitedexceptiontothisruleby permittingfacialinvalidationofastatutethatburdensasubstantialamountofprotected speech, evenifthest atute may be constitutionally applied in particular circumstances. "TheConstitutiongivessignificantprotectionfromoverbroadlawsthatchillspeech withintheFirstAmendment'svastandprivilegedsphere.Underthisprinciple,[alaw]is unconstitutionalonitsfaceifitprohibitsasubstantialamountofprotectedexpression." Ashcroftv.FreeSpeechCoalition ,122S.Ct.1389,1399(2002); seealso Broadricky. Oklahoma, 413U.S. 601, 612 (1973). This more liberal test of a statute's facial validity undertheFirstAmendmentstemsfromtherecognitionthatwhereastatute'sreach contemplates a number of both constitutional and unconstitutional applications, the law's sanctionsmaydeterindividualsfromchallengingthelaw'svaliditybyengagingin constitutionallyprotectedspeechthatmaynonethelessbeproscribedbythelaw. Without anoverbreadthdoctrine, "the contours of regulation would have to be hammered out case bycase—andtestedonlybythosehardyenoughtoriskcriminalprosecutiontodetermine theproperscopeofregulation." Dombrowskiv.Pfister ,380U.S.479,487(1965); see also Brockettv.SpokaneArcades,Inc. ,472U.S.491,503(1985)("[A]nindividual

whoseownspeechorexpressiveconductmayvalidlybeprohibitedorsanctionedis permittedtochallengeastatuteonitsfacebecauseitalsothreatensothersnotbeforethe court—thosewhodesiretoengageinlegallyprotectedexpressionbutwhomayrefrain fromdoingsoratherthanriskprosecutionorundertaketohavethelawdeclaredpartially invalid.").

Plaintiffsarguethattheoverbreadthdoctrineisapplicablehere,sinceCIPA "threatenstochillfreespeech-becauseitwillcensorasubstantialamountofprotected speech,becauseitisvague,andbecausethelawcreatesapriorrestraint...."Unlikethe statutestypicallychallengedasfaciallyoverbroad,however,CIPAdoesnotimpose criminalpenaltiesonthosewhoviolateitsconditions. \*\*Cf. FreedomofSpeechCoalition\*\*, 122S.Ct.at1398("Withtheseseverepenaltiesinforce,fewlegitimatemovieproducers orbookpublishers,orfewotherspeakersinanycapacity,wouldriskdistributingimages inorneartheuncertainreachofthislaw.").Thus,therationaleforpermittingfacial challengestolawsthatmaybeconstitutionallyappliedinsomeinstancesisless compellingincasessuchasthis,whichinvolvechallengestoCongress'sexerciseofthe spendingpower,thaninchallengestocriminalstatutes.

Nonetheless, "evenminorpunishmentscanchillprotectedspeech," *id.*, and absent the ability to challenge CIPA on its face, public libraries that depend on federal funds may decide to comply with CIPA's terms, thereby denying patrons access to substantial amounts of constitutionally protected speech, rather than refusing to comply with CIPA's

termsandconsequentlylosingthebenefitsoffederalfunds. See47C.F.R.§54.520(e)(1)

("Aschoolorlibrarythatknowinglyfailstoensuretheuseofcomputersinaccordance withthecertificationsrequiredbythissection,mustreimburseanyfundsanddiscounts receivedunderthefederaluniversalsupportservicesupportmechanismforschoolsand librariesfortheperiodinwhichtherewasnoncompliance."). Evenincaseswherethe onlypenaltyforfailuretocomplywithastatuteisthewithholdingoffederalfunds, the CourthassustainedfacialchallengestoCongress's exerciseofthespendingpower. See, e.g., LegalServs. Corp.v. Velazquez ,531U.S.533(2001)(declaringunconstitutionalon itsfaceafederalstatuterestrictingtheabilityoflegalservicesproviderswhoreceive federalfundstoengageinactivityprotectedbytheFirstAmendment).

The Court's unconstitutional conditions cases, such as *Velazquez*, are not strictly controlling, since they do not require a showing that recipients who comply with the conditions attached to federal funding will, as state actors, violate others' constitutional rights, as is the case under the fourthprong of *Dole*. However, they are highly instructive.

The Supreme Court's pronouncements in the unconstitutional conditions cases on what is necessary for a plaintiff to mount a successful First Amendment facial challenge to an exercise of Congress's spending power have not produced as earnless web. For example, in *Rustv. Sullivan*, 500 U.S. 173 (1991), the Court rejected a First Amendment facial challenge to federal regulations prohibiting federally funded health care clinics from

providing counseling concerning the use of abortion as a method of family planning, explaining that:

Petitionersarechallengingthe facialvalidityoftheregulations. Thus, we are concerned only with the question whether, on their face, the regulations are both authorized by the Actand can be construed in such amanner that they can be applied to a set of individuals without infringing upon constitutionally protected rights. Petitioners face a heavy burden in seeking to have the regulations invalidated as facially unconstitutional.... The fact that the regulations might operate unconstitutionally under some conceivable set of circumstances is insufficient to render them wholly invalid.

Id.at183(internalquotationmarks, alterations, and citationomitted). Incontrast, NEAv. Finley, 524U.S.569(1998), which also involved a facial First Amendment challenge to an exercise of Congress's spending power, articulated as omewhat more liberal test of facial validity than Rust, explaining that "[t] oprevail, respondents must demonstrate a substantial risk that application of the provision will lead to the suppression of speech."

Id.at580.

Againstthisbackground, it is unclear tous whether, to succeed in facially invalidating CIPA on the grounds that it will "induce the State stoen gage in activities that would themselves be unconstitutional," Dole, 483 U.S. at 210, plaint iffs must show that it is impossible for public libraries to comply with CIPA's conditions without violating the First Amendment, or rather simply that CIPA will effectively restrict library patrons' access to substantial amounts of constitutionally protected speech, therefore causing many libraries to violate the First Amendment. However, we need not resolve this issue.

Rather, we may assume without deciding, for purposes of this case, that a facial challenge to CIPA requires plaintiffs to show that any public library that complies with CIPA's conditions will necessarily violate the First Amendment and, as explained in detail below, we be lieve that CIPA's constitutionality fails even under this more restrictive test of facial validity urged on us by the government. Because of the inherent limitations in filtering technology, public libraries cannever comply with CIPA without blocking access to a substantial amount of speech that is both constitutionally protected and fails to meet even the filtering companies' own blocking criteria. We turn first to the governing legal principles to be applied to the facts in order to determine whether the First Amendment permits a library to use the filtering technology mandated by CIPA.

# IV.LevelofScrutinyApplicabletoContent-basedRestrictionsonInternetAccess inPublicLibraries

Inanalyzingtheconstitutionalityofapubliclibrary's useofInternetfiltering software, wemustfirstidentifytheappropriatelevelofscrutinytoapplytothisrestriction onpatrons'accesstospeech. Whileplaintiffsarguethatapubliclibrary's useofsuch filtersissubjecttostrictscrutiny, the government maintainst hat the applicable standard is rational basis review. If strictscrutiny applies, the government must show that the challenged restriction on speechis narrowlytailored to promote a compelling government interest and that no less restrictive alternative would further that interest. *United Statesv. Playboy Entm't Group, Inc.*, 529 U.S. 803,813 (2000). In contrast, under rational basis review, the challenged restriction need only be reasonable; the government interest that

therestrictionservesneednotbecompelling; the restriction need not benarrowly tailored to serve that interest; and the restriction need not be the most reasonable or the only reasonable limitation. *Cornelius v. NAACP Legal Def. & Educ. Fund*, 473 U.S. 788,808 (1985).

Softwarefilters,bydefinition,blockaccesstospeechonthebasisofitscontent, andcontent-basedrestrictionsonspeecharegenerallysubjecttostrictscrutiny. See Playboy,529U.S.at813("[A]content-basedspeechrestriction...canstandonlyifit satisfiesstrictscrutiny.").Strictscrutinydoesnotnecessarilyapplytocontent-based restrictionsonspeech,however,wheretherestrictionsapplyonlytospeechon governmentproperty,suchaspubliclibraries."[I]tis...wellsettledthatthegovernment neednotpermitallformsofspeechonpropertythatitownsandcontrols." Int'lSoc'yfor KrishnaConsciousness,Inc.v.Lee ,505U.S.672,678(1992).Weperforceturntoa discussionofpublicforumdoctrine.

#### A.OverviewofPublicForumDoctrine

Thegovernment's power to restrict speechonits own property is not unlimited.

Rather, under public for um doctrine, the extent to which the First Amendment permits the government to restrict speechonits own property depends on the character of the forum that the government has created. See Cornelius v. NAACP Legal Def. & Educ. Fund, Inc.

473U.S.788(1985). Thus, the First Amendment affords greater deference to restrictions on speechinthose are as considered less amenable to free expression, such as military

bases, see Greerv.Spock ,424U.S.828(1976),jailgrounds, see Adderleyv.Florida ,385 U.S.39(1966),orpublicairportterminals, see Int'lSoc'yforKrishnaConsciousness,

Inc.v.Lee ,505U.S.672(1992),thantorestrictionsonspeechinstateuniversities, see Rosenbergerv.Rector&VisitorsofUniv.ofVa. ,515U.S.819(1995),orstreets, sidewalksandpublicparks, see Frisbyv.Schultz ,487U.S.474(1988); Haguev.CIO , 307U.S.496(1939).

The Supreme Courthasidentified three types of for a for purposes of identifying the level of First Amendments crutiny applicable to content-based restrictions on speech ongovernment property: traditional public for a, designated public for a, and nonpublic for a. Traditional public for a includes idewalks, squares, and public parks:

[S]treetsandparks...haveimmemoriallybeenheldintrustfortheuseof thepublicand,timeoutofmind,havebeenusedforpurposesofassembly, communicatingthoughtsbetweencitizens,anddiscussingpublicquestions. Suchuseofthestreetsandpublicplaceshas,fromancienttimes,beena partoftheprivileges,immunities,rights,andlibertiesofcitizens.

Hague,307U.S.at515."Inthesequintessentialpublicforums,...[f]ortheStateto enforceacontent-basedexclusionitmustshowthatitsregulationisnecessarytoservea compellingstateinterestandthatitisnarrowlydrawntoachievethatend." PerryEduc. Ass'nv.PerryLocalEducs.Ass'n ,460U.S.37,45(1983); seealso Int'lSoc'yfor KrishnaConsciousness ,505U.S.at678("[R]egulationofspeechongovernment propertythathastraditionallybeenavailableforpublicexpressionissubjecttothe highestscrutiny."); Frisby,487U.S.at480("[W]ehaverepeatedlyreferredtopublic

streetsasthearchetypeofatraditionalpublicforum.").

Asecondcategoryoffora, knownasdesignated (or limited) public fora, "consists ofpublicpropertywhichtheStatehasopenedforusebythepublicasaplacefor expressiveactivity." *Perry*,460U.S.at46.Whereasanycontent-basedrestrictionon theuse of traditional public for a issubject to stricts crutiny, the state is generally permitted, as long as it does not discriminate on the basis of viewpoint, to limit a designated public for um to certain speakers or the discussion of certain subjects. See Perry, 460U.S. at 45n.7. Once it has defined the limits of a designated public forum, however, "[r]egulation of such property is subject to the same limitations as that governingatraditionalpublicforum." Int'lSoc'yforKrishnaConsciousness ,505U.S. at 678. Examples of designated for ainclude university meeting facilities, see Widmarv. Vincent, 454U.S.263(1981), schoolboard meetings, see CityofMadisonJointSchool Dist.v. Wisc. Employment Relations Comm'n ,429U.S.167(1976), and municipal theaters, see SoutheasternPromotions,Ltd.v.Conrad ,420U.S.546(1975).

Thethirdcategory,nonpublicfora,consistsofallremainingpublicproperty.

"Limitationsonexpressiveactivityconductedonthislastcategoryofpropertymust surviveonlyamuchmorelimitedreview. The challenged regulation need only be reasonable, as long as the regulation is not an effort to suppress the speaker's activity due to disagreement with the speaker's view." Int'l Soc'y for Krishna Consciousness ,505 U.S. at 679.

# B.ContoursoftheRelevantForum:theLibrary'sCollectionasaWholeorthe ProvisionofInternetAccess?

Toapplypublicforumdoctrinetothiscase, wemustfirst determine whether the appropriate forum for an alysis is the library's collection as a whole, which includes both print and electronic resources, or the library's provision of Internetaccess. Where a plaint if seeks limited access, for expressive purposes, to governmentally controlled property, the Supreme Courthasheld that the relevant for umis defined not by the physical limits of the government property at issue, but rather by the specific access that the plaint if seeks:

Although...asaninitialmatteraspeakermustseekaccesstopublic propertyortoprivatepropertydedicatedtopublicusetoevokeFirst Amendmentconcerns,forumanalysisisnotcompletedmerelyby identifyingthegovernmentpropertyatissue.Rather,indefiningtheforum wehavefocusedontheaccesssoughtbythespeaker.Whenspeakersseek generalaccesstopublicproperty,theforumencompassesthatproperty.In casesinwhichlimitedaccessissought,ourcaseshavetakenamore tailoredapproachtoascertainingtheperimetersofaforumwithinthe confinesofthegovernmentproperty.

Corneliusv.NAACPLegalDef.&Educ.Fund,Inc. ,473U.S.788,801(1985).

Thus,in *Cornelius*, wherethe plaintiffs were legal defense and political advocacy groups seeking to participate in the Combined Federal Campaign charity drive, the Court held that the relevant forum, for First Amendment purposes, was not the entire federal work place, but rather the charity drive itself. *Id.* at 801. Similarly, in *Perry Education Association Perry Local Educators' Association*, 460 U.S. 37(1983), which addressed a union's right to access a public school's internal mail system and teachers' mail boxes,

theCourtidentifiedtherelevantforumastheschool'smailsystem,notthepublicschool asawhole.In Widmary. Vincent ,454U.S.263(1981), inwhichastudent group challengedastateuniversity's restrictions on use of its meeting facilities, the Court identifiedtherelevantforumasthemeetingfacilitiestowhichtheplaintiffssought access, not the state university generally. And in Christ'sBrideMinistries.Inc.v. SEPTA, 148F.3d242(3dCir.1998),involvingaFirstAmendmentchallengetothe removalofadvertisementsfromsubwayandcommuterrailstations, the Third Circuit noted that the forumatissue was not the rail and subwaystations as a whole, but rather theadvertisingspacewithinthestations. Id.at248. Although these cases dealt with the problemofidentifyingtherelevantforumwhere speakers are claiming a right of access, webelievethatthesameapproachappliestoidentifyingtherelevantforumwherethe partiesseekingaccessarelistenersorreaders.

Inthiscase, the patron plaintiffs are not asserting a First Amendment right to compel public libraries to acquire certain books or magazines for their print collections. Nor are the Website plaintiffs claiming a First Amendment right to compel public libraries to carry print materials that they publish. Rather, the right at issue in this case is the specific right of library patrons to access information on the Internet, and the specific right of Webpublishers to provide library patrons within formation via the Internet. Thus, the relevant for umfor an alysis is not the library's entire collection, which includes both print and electronic media, such as the Internet, but rather the specific for umcreated

when the library provides its patrons with Internet access.

Althoughapubliclibrary's provision of Internetaccess does not resemble the conventional notion of a forum as a well-defined physical space, the same First Amendments tandard sapply. See Rosenbergerv. Rector & Visitors of Univ. of Va. ,515 U.S. 819,830 (1995) (holding that a state university's student activities fund "is a forum more in a metaphysical than a spatial or geographic sense, but the same principles are applicable"); see also Cornelius, 473 U.S. at 801 (identifying the Combined Federal Campaign charity drive as the relevant unit of an alysis for application of public for um doctrine).

### C.Content-basedRestrictionsinDesignatedPublicFora

Unlikenonpublicforasuchasairportterminals, see Int'lSoc'yforKrishna

Consciousness,Inc.v.Lee ,505U.S.672(1992),militarybases, see Greerv.Spock ,424

U.S.828(1976),jailgrounds, see Adderleyv.Florida ,385U.S.39(1966),thefederal

workplace, see Corneliusv.NAACPLegalDef.&Educ.Fund ,473U.S.788,805

(1985),andpublictransitvehicles, see Lehmanv.CityofShakerHeights ,418U.S.298

(1974),thepurposeofapubliclibraryingeneral,andtheprovisionofInternetaccess

withinapubliclibraryinparticular,is"forusebythepublic...forexpressiveactivity,"

PerryEduc.Ass'nv.PerryLocalEducs.Ass'n ,460U.S.37,45(1983),namely,the

disseminationandreceiptbythepublicofawiderangeofinformation.Wearesatisfied

thatwhenthegovernmentprovidesInternetaccessinapubliclibrary,ithascreateda

designatedpublicforum. See MainstreamLoudounv.Bd.ofTrusteesoftheLoudoun CountyLibrary ,24F.Supp.2d552,563(E.D.Va.1998); cf. Kreimerv.Bureauof Police,958F.2d1242,1259(3dCir.1992)(holdingthatapubliclibraryisalimited publicforum).

Relyingonthosecasesthathaverecognizedthatgovernmenthasleeway,under theFirstAmendment,tolimituseofadesignatedpublicforumtonarrowlyspecified purposes,andthatcontent-basedrestrictionsonspeechthatareconsistentwiththose purposesaresubjectonlytorationalbasisreview,thegovernmentarguesforapplication ofrationalbasisreviewtopubliclibraries'decisionsaboutwhichcontenttomake availabletotheirpatronsviatheInternet. See Rosenberger,515U.S.819,829(1995) ("Thenecessitiesofconfiningaforumtothelimitedandlegitimatepurposesforwhichit wascreatedmayjustifytheStateinreservingitforcertaingroupsorforthediscussionof certaintopics."); Perry,460U.S.at46n.7(1983)("Apublicforummaybecreatedfora limitedpurposesuchasusebycertaingroups...orforthediscussionofcertain subjects.").

Inparticular, the government forcefully arguest hat a public library's decision to limit the content of its digital offerings on the Internet should be subject to no stricter scrutiny than its decisions about what content to make a vailable to its patrons through the library's print collection. According to the government, just as a public library may choose to acquire books about gardening but not golf, without having to show that this

content-basedrestrictiononpatrons'accesstospeechisnarrowlytailoredtofurthera compellingstateinterest, somayapubliclibrarymakecontent-baseddecisionsabout which speechtomakeavailable on the Internet, without having to show that such a restriction satisfies stricts crutiny.

Plaintiffsrespondthatthegovernment's ability to restrict the content of speechin adesignated public for umby restricting the purpose of the designated public for umthat it creates is not unlimited. *Cf. Legal Servs. Corp. v. Velazquez*, 531U.S.533,547 (2001) ("Congress cannot recast a condition on funding a same redefinition of its program in every case, lest the First Amendment be reduced to a simple semantic exercise."). As Justice Kennedyhas explained:

If Governmenthas a freer hand to draw content-based distinctions in limiting a forum than in excluding some one from it, the First Amendment would be a deadletter in designated public forums; every exclusion could be recast as a limitation.... The power to limit or redefine for ums for a specific legitimate purpose does not allow the government to exclude certain speech or speakers from them for any reason at all.

DenverAreaTelecomm.Consortium,Inc.v.FCC ,518U.S.727,801(1996)(Kennedy, J.,concurringinthejudgment).

AlthoughweagreewithplaintiffsthattheFirstAmendmentimposessomelimits onthestate's ability to adopt content-based restrictions in defining the purpose of a public forum, precisely what those limits are is unclear, and presents a difficult problem in First Amendment juris prudence. The Supreme Court's "cases have not yet determined" ... that government's decision to dedicate a public forum to one type of contentor

anotherisnecessarilysubjecttothehighestlevelofscrutiny. Mustalocalgovernment, forexample, showacompelling state interestifit builds abandshell in the park and dedicates it solely to classical music (but not to jazz)? The answer is not obvious."

Denver, 518U.S. at 750 (plurality opinion); see also Southeastern Promotions, Ltd.v.

Conrad, 420U.S. 546, 572-73 (1975) (Rehnquist, J., dissenting) ("Mayanoperahouse limitits productions to operas, or must it also show rock musicals? Mayamunicipal theater devote an entirese as onto Shakespeare, or is it required to book any potential producer on a first served basis?").

Webelieve, however, that certain principles emerge from the Supreme Court's jurisprudence on this question. In particular, and perhaps somewhat counterintuitively, the more narrow the range of speech that the government chooses to subsidize (whether directly, through government grants or other funding, or indirectly, through the creation of a public forum) the more deference the First Amendment accords the government in drawing content-based distinctions.

Atoneextremeliesthegovernment's decision to fundaparticular message that the government seeks to disseminate. In this context, content-based restrictions on the speech that government chooses to subsidize a reclearly subject to atmost rational basis review, and even view point discrimination is permissible. For example, "[w]hen Congresses tablished a National Endowment for Democracy to encourage other countries to adopt democratic principles, 22 U.S.C. § 4411(b), it was not constitutionally required

tofundaprogramtoencouragecompetinglinesofpoliticalphilosophysuchas communismandfascism." *Rustv.Sullivan* ,500U.S.173,194(1991); *seealso Velazquez*,531U.S.at541("[V]iewpoint-basedfundingdecisionscanbesustainedin instancesinwhichthegovernmentisitselfthespeaker,orininstances,like *Rust*,in whichthegovernmentusedprivatespeakerstotransmitinformationpertainingtoitsown program.")(internalquotationmarksandcitationomitted).

Althoughnotstrictlycontrolling,theSupremeCourt'sunconstitutionalconditions cases, suchas *Rust* and *Velazquez*, are instructive for purposes of analyzing content-based restrictions on the use of public for a. This is because the limitations that government places on the use of a public for umcan be conceptualized as conditions that the government attaches to the receipt of abene fit that it offers, namely, the use of government property. Public for umcases thus resemble those unconstitutional conditions cases involving First Amendment challenges to the conditions that the state places on the receipt of a government benefit. *See Velazquez*, 531U.S. at 544 ("As this suit involves a subsidy, limited for umcases... may not be controlling in the strict sense, yet they do provide some instruction.").

Evenwhenthegovernmentdoesnotfundthedisseminationofaparticular governmentmessage,theFirstAmendmentgenerallypermitsgovernment,subjecttothe constraintsofviewpointneutrality,tocreatepublicinstitutionssuchasartmuseumsand stateuniversities,dedicatedtofacilitatingthedisseminationofprivatespeechthatthe

governmentbelievestohaveparticularmerit. Thus, in NEAv. Finley ,524U.S.569 (1998), the Courtupheld the use of content-based restrictions in a federal program awarding grantstoartists on the basis of, interalia, artistic excellence. "The very assumption of the NEA is that grants will be awarded according to the artistic worth of competing applications, and absolute neutrality is simply inconceivable." Id. at 585 (internal quotation marks and citation omitted).

Similarly, as Justice Stevens explained in his concurring opinion in *Widmarv*. *Vincent*, 454U.S.263(1981), the First Amendment does not necessarily subject to strict scrutiny as tateuniversity's use of content-based means of allocating scarceres ources, including limited public for a such as its meeting facilities:

Becauseeveryuniversity's resources are limited, an educational institution mustroutinely make decisions concerning the use of the time and space that is available for extracurricular activities. In myjudgment, it is both necessary and appropriate for those decisions to evaluate the content of a proposed student activity. Is hould think it obvious, for example, that if two groups of 25 students requested the use of a room at a particular time—one to view Mickey Mouse cartoons and the other to rehearse an amateur performance of Hamlet—the First Amendment would not require that the room be reserved for the group that submitted it sapplication first. Nor do I see why a university should have to establish a "compelling state interest" to defend its decision to permit one group to use the facility and not the other.

*Id.*at278(Stevens,J.,concurringinthejudgment). 22

<sup>&</sup>lt;sup>22</sup>Indeed,iftheFirstAmendmentsubjectedtostrictscrutinythegovernment's decisiontodedicateaforumtospeechwhosecontentthegovernmentjudgestobe particularlyvaluable,manyofourpublicinstitutionsofculturewouldceasetoexistin theircurrentform:

Themorebroadlythegovernmentfacilitatesprivatespeech,however,theless deferencetheFirstAmendmentaccordstothegovernment's content-basedrestrictions on the speech that it facilitates. Thus, where the government creates a designated public for um to facilitate privatespeech representing a diverse range of viewpoints, the government's decision selectively to single outparticular viewpoints for exclusion is subject to stricts crutiny. *Compare Rosenberger*, 515 U.S. at 834 (applying height ened First Amendments crutiny to viewpoint-based restrictions on the use of a limited public for umwhere the government "does not itself speak or subsidize transmittal of a message it favors but instead expends funds to encourage a diversity of views from private speakers"), with Finley, 524 U.S. at 586 ("In the context of arts funding, in contrast to many other subsidies, the Government does not in discriminately encourage a diversity of

Fromhereonout, the National Gallery in Washington, D.C., for example, would be required to display the art of all would-beart ists on a first-come-first-served basis and would not be able to exercise any content control over its collection through evaluations of quality. Such a conclusion, of course, strikes us as absurd, but that is only because we feel that the government should be free to establish public cultural institutions guided by standards such as "quality."

...

WhiletheFirstAmendmentarticulatesadeepfearofgovernment interventioninthemarketplaceofideas(becauseoftheriskofdistortion),it also seems prepared to permit state-sponsored and-supported cultural institutions that exercise considerable control overwhich art to fund, which pictures to hang, and which courses to teach. That the sechoices necessarily involvejud gments about favored and disfavored content—judgments clearly prohibited in the real moscensor ship—is indisputable.

Lee C.Bollinger, *PublicInstitutionsofCultureandtheFirstAmendment:TheNew Frontier*,63U.Cin.L.Rev.1103,1110-15(1995).

viewsfromprivatespeakers.")(internal quotation marks and citation omitted).

Similarly, although the government may create a designated public for umlimited to speech on a particular topic, if the government opens the forum to members of the generalpublictospeakonthattopicwhileselectivelysinglingoutforexclusion particularspeakersonthebasisofthecontentoftheirspeech, that restriction is subject to strictscrutiny.Forinstance,in CityofMadisonJointSchoolDistrictNo.8v.Wisconsin EmploymentRelationsCommission ,429U.S.167(1976),theCourtheldthatwherea schoolboardopensitsmeetingsforpublicparticipation, it may not, consistent with the FirstAmendment,prohibitteachersotherthanunionrepresentativesfromspeakingon the subject of pending collective-bargaining negotiations. See id.at175(notingthatthe state "hasopeneda for um for direct citizen involvement"); seealso Ark.Educ.Television Comm'nv.Forbes ,523U.S.666,680(1998)(distinguishing,forpurposesof determining the appropriate level of First Amendments crutiny, at elevised debate in whichapublicbroadcastingstationexerciseseditorialdiscretioninselecting participating candidates from a debate that has "an open-microphone format").

Finally,content-basedrestrictionsonspeechinadesignated public forumare most clearly subject to strict scrutiny when the government opens a forum for virtually unrestricted use by the general public for speech on a virtually unrestricted range of topics, while selectively excluding particular speech whose content it disfavors. Thus, in *Conrad*, the Courtheld that a local government violated the First Amendment when it

deniedagroupseekingtoperformtherockmusical "Hair" accesstoageneral-purpose municipaltheateropenforthepublicatlargetouseforperformances. Seealso Denver, 518U.S. at802 (Kennedy, J., concurring in the judgment) (suggesting that stricts crutiny would not apply to a local government's decision to "build [] abandshell in the park and dedicate [] it so lely to classical music (but not jazz), "but would apply to "the Government's creation of a bandshell in which all types of music might be performed except for rapmusic").

Similarly,in FCCv.LeagueofWomenVotersofCal. ,468U.S.364(1984),the Courtsubjectedtoheightenedscrutinyafederalprogramthatfundedawiderangeof publicbroadcastingstationsthatdisseminatedspeechonawiderangeofsubjects,where thefederalprogramsingledoutforexclusionspeechwhosecontentamountedto editorializing.AstheCourtlaterexplained:

In FCCv.LeagueofWomenVotersofCal. ,468U.S.364(1984)theCourtwas instructedbyitsunderstandingofthedynamicsofthebroadcastindustryin holdingthatprohibitionsagainsteditorializingbypublicradionetworkswerean impermissiblerestriction,eventhoughtheGovernmentenactedtherestrictionto controltheuseofpublicfunds.TheFirstAmendmentforbadetheGovernment fromusingtheforuminanunconventionalwaytosuppressspeechinherentinthe natureofthemedium.

Velazquez,531U.S.at543.

Insum,themorewidelythestateopensaforumformembersofthepublicto speakonavarietyofsubjectsandviewpoints,themorevulnerableisthestate'sdecision selectivelytoexcludecertainspeechonthebasisofitsdisfavoredcontent,assuch

exclusions distort the market place of ideas that the state has created in establishing the forum. *Cf. Velazquez*, 531U.S. at 544 ("Restricting LSC attorneys in advising their clients and in presenting arguments and analyses to the courts distort sthelegal system by altering the traditional role of the attorneys in much the same way broad cast systems or student publication networks were changed in the limited forum cases....").

Thus, we believe that where the statedesignates a forum for expressive activity and open sthe forum for speech by the publication geonawider angeof topics, strict scrutinyappliestorestrictionsthatsingleoutforexclusionfromtheforumparticular speechwhosecontentisdisfavored. "Lawsdesignedorintendedtosuppressorrestrict the expression of *specific* speakers contradict basic First Amendment principles." United Statesv.PlayboyEntm'tGroup,Inc. ,529U.S.803,812(2000); seealso Denver,518 U.S.at782(Kennedy, J., concurring in the judgment) (noting the flaw in a law that "singlesoutonesortofspeechforvulnerabilitytoprivatecensorshipinacontextwhere Compare Forbes, 523U.S.at content-baseddiscriminationisnototherwisepermitted"). 679(holdingthatthestatedoesnotcreateapublicforumwhenit"allowsselective accessforindividualspeakersratherthangeneralaccessforaclassofspeakers") (emphasisadded), with PoliceDep'toftheCityofChicagov.Mosley ,408U.S.92,96 (1972)("Selective exclusions from a public for ummay not be based on contental one, andmaynotbejustifiedbyreferencetocontentalone.")(emphasisadded).

Wenotefurtherthattotheextentthatthegovernmentcreatesapublicforum

expresslydesignedtofacilitatethedisseminationofprivatespeech,openstheforumto anymemberofthepublictospeakonanyvirtuallyanytopic,andthenselectivelytargets certainspeechforexclusionbasedonitscontent,thegovernmentissinglingoutspeech inamannerthatresemblesthediscriminatorytaxesonthepressthattheSupremeCourt subjectedtoheightenedFirstAmendmentscrutinyin *ArkansasWriters'Project,Inc.v. Ragland*,481U.S.221(1987),and *MinneapolisStar&TribuneCo.v.Minnesota CommissionerofRevenue* ,460U.S.575(1983),whichweexplaininthemargin.

## **D.ReasonsforApplyingStrictScrutiny**

#### 1.SelectiveExclusionFroma"VastDemocraticForum"

Applying these principles to public libraries, we agree with the government that generally the First Amendment subjects libraries' content-based decisions about which print material sto acquire for their collections to only rational review. In making these decisions, public libraries are generally free to adopt collection development criteria that

<sup>&</sup>lt;sup>23</sup>Inbothofthesecases, the taxations chemeatissue effectively subsidized a vast rangeofpublications, and singled outfor penalty only a handful of speakers. See Arkansas Writers' Project ,460U.S. at 228-29 (noting that "selective tax at ion of the press-...[by]targetingindividualmembersofthepress-posesaparticulardangerof abusebytheState"andexplainingthat"thiscaseinvolvesamoredisturbinguseof selectivetaxationthan MinneapolisStar, because the basis on which Arkansas differentiates between magazines is particularly repugnant to First Amendment principles: content"); MinneapolisStar ,460U.S.at amagazine'staxstatusdependsentirelyonits 591("Minnesota's inkandpapertax violates the First Amendment not only because it singlesoutthepress, but also because it targets a small group of newspapers."); seealso TurnerBroad.Sys.,Inc.v.FCC ,512U.S.622,660(1994)("Thetaxesinvalidatedin MinneapolisStar and ArkansasWriters'Project ...targetedasmallnumberofspeakers, andthusthreatenedtodistortthemarketforideas.")(internalquotationmarksand citationomitted).

reflectnotsimplypatrons' demandforcertainmaterial, butalsothelibrary's evaluation of thematerial's quality. See Bernard W. Bell, Filth, Filtering, and the First Amendment: Ruminations on Public Libraries' Use of Internet Filtering Software ,53
Fed. Comm. L. J. 191,225 (2001) ("Librarians should have the discretion to decide that the library is committed to intellectual inquiry, not to the satisfaction of the full range of humandesires."). Thus, a public library's decision to use the last \$100 of its budget to purchase the complete works of Shakespeare even though more of its patrons would prefer the library to use the same amount to purchase the complete works of John Grisham, is not, in our view, subject to strict scrutiny. Cf. NEAv. Finley ,524 U.S. 569 (1998) (subjecting only to rational basis review the government's decision to award NEA grants on the basis of, interalia, artistic excellence).

Nonetheless, wedisagreewith the government's argument that public libraries' use of Internet filters is no different, for First Amendment purposes, from the editorial discretion that they exercise when they choose to acquire certain books on the basis of librarians' evaluation of their quality. The central difference, in our view, is that by providing patrons with even filtered Internet access, the library permits patrons to receive speech on a virtually unlimited number of speakers, without attempting to restrict patrons' access to speech that the library, in the exercise of its professional judgment, determines to be particularly valuable. *Cf. Rosenbergerv. Rector & Visitors of Univ. of Va.* ,515 U.S. 819,834 (1995) (applying

strictscrutinytoviewpoint-basedrestrictionswherethestate"doesnotitselfspeakor subsidizetransmittalofamessageitfavorsbutinsteadexpendsfundstoencouragea diversityofviewsfromprivatespeakers"). Seegenerally supraSectionIV.C.

Inthosecase supholding the government's exercise of editorial discretion in selectingcertainspeechforsubsidizationorinclusioninastate-createdforum,thestate actorexercisingtheeditorialdiscretionhasatleastreviewedthecontentofthespeech thattheforumfacilitates.Thus,in *Finley*theNEAexaminedthecontentofthoseworks ArkansasEducationalTelevisionCommissionv. ofartthatitchosetosubsidize,andin Forbes, 523U.S. 666 (1998), the public broadcaster specifically reviewed and approved each speaker permitted to participate in the debate. See id.at673("Inthecaseof televisionbroadcasting....broadrightsofaccessforoutsidespeakerswouldbe antithetical, as a general rule, to the discretion that stations and their editorial staff must exercisetofulfilltheirjournalisticpurposeandstatutoryobligations."); Finley,524U.S. at 586 ("The NEA's mandate is to make esthetic judgments, and the inherently contentbased 'excellence' threshold for NEA supports et sit apart from the subsidy at issue in Rosenberger-whichwasavailabletoallstudentorganizationsthatwere'relatedtothe educationalpurposeoftheUniversity....'")(quoting Rosenberger,515U.S.at824); seealso Corneliusv.NAACPLegalDef.&Educ.Fund ,473U.S.788,804(1985)("The Government's consistent policy has been to limit participation in the [Combined Federal Campaign]to'appropriate'voluntaryagenciesandtorequireagenciesseekingadmission

toobtainpermissionfromfederalandlocalCampaignofficials....[T]hereisno evidencesuggestingthatthegrantingoftherequisitepermissionismerelyministerial."). Theessenceofeditorialdiscretionrequirestheexerciseofprofessionaljudgmentin examiningthecontentthatthegovernmentsinglesoutasspeechofparticularvalue.

Thisexerciseofeditorial discretion is evidentinal ibrary's decision to acquire certain books for its collection. As the government's expert sin library science testified, in selecting abook for a library's collection, librarian sevaluate the book's quality by reference to avariety of criteria such as its accuracy, the title's niche in relation to the rest of the collection, the authority of the author, the publisher, the work's presentation, and how it compares withouther material available in the same genre or on the same subject. Thus, the content of every book that a library acquires has been reviewed by the library's collection developments taffor some one to whom they have delegated the task, and has been judged to meet the criteria that form the basis for the library's collection development policy. Although some public libraries use "approval plans" to delegate the collection development to third-party vendors which provide the library with recommended materials that the library is then free to retain or return to the vendor, the same principle none the less attains.

Incontrast, in providing patrons with even filtered Internet access, a public library invites patrons to access speech whose content has never been reviewed and recommended as particularly valuable by either a librarian or a third party to whom the

libraryhasdelegatedcollectiondevelopmentdecisions. Althoughseveralofthe government's librarian witnesses who testified attrial purport to apply the same standards that govern the library's acquisition of print material stothelibrary's provision of Internetaccess to patrons, when public libraries provide their patrons with Internet access, they intentionally open their doors to vast amounts of speech that clearly lacks sufficient quality to ever be considered for the library's print collection. Unless a library allows access to only those sites that have been preselected as having particular value, a method that, as noted above, was tried and rejected by the Wester ville Ohio Public Library, see supra at 46-47, even a library that uses software filters has opened its Internet collection "for indiscriminate use by the general public." Perry Educ. Ass'nv. Perry Local Educs. Ass'n ,460 U.S. 37,47 (1983). "[M] ost Internet for ums—including chatrooms, news groups, mail exploders, and the Web—are open to all comers." Renov. ACLU, 521 U.S. 844, 880 (1997).

Thefundamental difference between a library's print collection and its provision of Internet accessis illustrated by comparing the extent to which the library opensits print collection to members of the public to speak on a given to pic and the extent to which it opensits Internet terminal stomembers of the public to speak on a given to pic. When a public library chooses to carry books on a selected to pic, e.g. chemistry, it does not open its print collection to any member of the public who wishest owrite about chemistry. Rather, out of the myriad of books that have ever been written on chemistry,

eachbookonchemistrythatthelibrarycarrieshasbeenreviewedandselectedbecause thepersonreviewingthebook,intheexerciseofhisorherprofessionaljudgment,has deemeditscontenttobeparticularlyvaluable.Incontrast,whenapubliclibrary providesInternetaccess,evenfilteredInternetaccess,ithascreatedaforumopentoany memberofthepublicwhowritesaboutchemistryontheInternet,regardlessofhow unscientifictheauthor'smethodsorofhowpatentlyfalsetheauthor'sconclusionsare, regardlessoftheauthor'sreputationorgrammar,andregardlessofthereviewsofthe scientificcommunity.

NotwithstandingprotestationsinCIPA'slegislativehistorytothecontrary,

membersofthegeneralpublicdodefinethecontentthatpubliclibrariesmakeavailable

totheirpatronsthroughtheInternet.AnymemberofthepublicwithInternetaccess

could,throughthefreeWebhostingservicesavailableontheInternet,tonightjotdowna

fewmusingsonanysubjectunderthesun,andtomorrowthosemusingswouldbecome

partofpubliclibraries'onlineofferingsandbeavailabletoanylibrarypatronwhoseeks

themout.

<sup>&</sup>lt;sup>24</sup> [P]atronsatalibrarydonothavetherighttomakeeditorialdecisions regardingtheavailabilityofcertainmaterial.Itistheexclusiveauthorityof thelibrarytomakeaffirmativedecisionsregardingwhatbooks,magazines, orothermaterialisplacedonlibraryshelves,orotherwisemadeavailableto patrons.Librariesimposemanyrestrictionsontheuseoftheirsystems whichdemonstratethatthecontentofthelibrary'sofferingsarenot determinedbythegeneralpublic.

InprovidingitspatronswithInternetaccess,apubliclibrarycreatesaforumfor thefacilitationofspeech,almostnoneofwhicheitherthelibrary'scollection developmentstafforeventhefilteringcompanieshaveeverreviewed. Although filteringcompaniesreviewaportionoftheWebinclassifyingparticularsites, the portion of the Webthatthefilteringcompanies actually review is quites mall in relation to the Webasawhole. The filtering companies 'harvesting process, described in our findings of fact, is intended to identify only as mall fraction of Websites for the filtering companies to review. Putsimply, the state cannot be said to be exercisinged itorial discretion permitted under the First Amendment when it in discriminately facilitates privates peech whose content it makes no effort to examine. *Cf. Bell., supra*, at 226 ("[C] our ts should take a much more jaundiced view of library policies that block Internet access to a very limited array of subjects than they take of library policies that reserve Internet terminals for very limited use.").

WhiletheFirstAmendmentpermitsthegovernmenttoexerciseeditorial discretioninsinglingoutparticularlyfavoredspeechforsubsidizationorinclusionina state-createdforum,webelievethatwherethestateprovidesaccesstoa"vastdemocratic forum[]," Reno,521U.S.at868,opentoanymemberofthepublictospeakonsubjects "asdiverseashumanthought," id.at870,andthenselectivelyexcludesfromtheforum certainspeechonthebasisofitscontent,suchexclusionsaresubjecttostrictscrutiny. Theseexclusionsriskfundamentallydistortingtheuniquemarketplaceofideasthat

public libraries create when they open their collections, via the Internet, to the speech of millions of individuals around the world on a virtually limitless number of subjects.

25

Apubliclibrary's content-based restrictions on patrons' Internet access thus resemble the content-based restrictions on speech subsidized by the government, whether through direct funding or through the creation of a designated public forum, that the Supreme Courth as subjected to strict scrutiny, as discussed above in Section IV.C. Although the government may subsidize a particular message representing the

Wedisagree. Nearly every librarian who testified attrial stated that patrons' demand for Internet access exceeds the library's supply of Internet terminals. Under such circumstances, every time library patrons visita Website, they deny other patrons waiting to use the terminal access to other Websites. Just as the scarcity of a library's budget and shelf space constrains a library's ability to provide its patrons with unrestricted access to print materials, the scarcity of time at Internet terminal sconstrains libraries' ability to provide patrons with unrestricted Internet access:

The same budget concerns constraining the number of books that libraries can offer also limits the number of terminals, Internet accounts, and speed of access links that can be purchased, and thus the number of Webpages that patrons can view. This is clear to any one who has been denied access to a Website because noterminal was unoccupied.

MarkS.Nadel, The First Amendment's Limitations on the Use of Internet Filtering in Publicand School Libraries: What Content Can Libraries Exclude? ,78 Tex.L.Rev. 1117,1128(2000).

<sup>&</sup>lt;sup>25</sup>Indistinguishingrestrictionsonpubliclibraries' printcollections from restrictions on the provision of Internetaccess, we do not rely on the rational ead opted in *Mainstream Loudounv. Boardof Trustees of the Loudoun County Library*, 2F. Supp. 2d783 (E.D. Va. 1998). The *Loudoun* Courtreas oned that a library's decision to block certain Web sites fundamentally differs from its decision to carrycertain books but not others, in that unlike the moneyands helfspace consumed by the library's provision of print materials, "no appreciable expenditure of library time or resources is required to make a particular Internet publication available" once the library has acquired Internetaccess. *Id.* at 793-94.

government's viewpoint withouthaving to satisfy stricts crutiny, see Rustv. Sullivan, 500U.S.173(1991), stricts crutiny applies to restrictions that selectively exclude particular viewpoints from a public for umdesigned to facilitate a widerange of viewpoints, see Rosenbergerv. Rector & Visitors of Univ. of Va. ,515U.S. 819(1995). Similarly, although the state's exercise of editorial discretion in selecting particular speakers for participation in a state-sponsored for umissubject to rational basis review, see Ark. Educ. Television Comm'nv. Forbes ,523U.S. 666(1998), selective exclusions of particular speakers from a for umother wise open to any member of the public to speak are subject to stricts crutiny, see City of Madison Joint School Dist. No. 8v. Wis. Employment Relations Comm'n ,429U.S. 167(1976).

Andwhilethegovernmentmay, subjectonly torational basis review, make content-based decisions in selecting works of artistic excellence to subsidize, see NEAv. Finley, 524U.S. 569(1998), the Supreme Courthas applied heightened scrutiny where the government opensageneral-purpose municipal the aterforuse by the public, but selectively excludes disfavored content, see Southeastern Promotions, Ltd. v. Conrad, 420U.S. 546(1975), where the government facilitates the speech of public broadcasters on a virtually limitless number of topics, but prohibits editorializing, see FCC v. League of Women Voters of Cal., 468U.S. 364(1984), and where the government funds a wide range of legal services but restricts funding recipients from challenging welfare laws, see Legal Servs. Corp. v. Velazquez, 531U.S. 533(2001). Similarly, where a public library

opensaforumtoanunlimitednumberofspeakersaroundtheworldtospeakonan unlimitednumberoftopics,strictscrutinyappliestothelibrary'sselectiveexclusionsof particularspeechwhosecontentthelibrarydisfavors.

## 2. Analogy to Traditional Public Fora

Application of stricts crutiny to public libraries' use of software filters, in our view, finds further support in the extent to which public libraries' provision of Internet accesspromotesFirstAmendmentvaluesinananalogousmannertotraditionalpublic fora, such asside walks and parks, in which content-based restrictions on speechare alwayssubjecttostrictscrutiny. The public library, by its very nature, is "designed for freewheelinginguiry." Bd. of Education v. Pico ,457U.S. 853,915(1982) (Rehnquist, J., dissenting). Assuch, the library is a "mighty resource in the free market place of ideas," Minarciniv. Strongsville CitySch. Dist. ,541F.2d577,582(6thCir.1976), and representsa" quintessential locus of the receipt of information." Kreimerv.Bureauof PoliceforMorristown ,958F.2d1242,1255(3dCir.1992); seealso Sundv.Cityof WichitaFalls ,121F.Supp.2d530,547(N.D.Tex.2000)("Therighttoreceive informationisvigorouslyenforcedinthecontextofapubliclibrary...."); cf. Int'lSoc'y forKrishnaConsciousness,Inc.v.Lee ,505U.S.672,681(1992)("[A]traditionalpublic forumispropertythathasas 'aprincipalpurpose...thefreeexchangeofideas.'") (quoting Corneliusv.NAACPLegalDef.&Educ.Fund ,473U.S.788,800(1985)).

WeacknowledgethattheprovisionofInternetaccessinapubliclibrarydoesnot

enjoythehistoricalpedigreeofstreets, sidewalks, and parks as a vehicle of free expression. Nonetheless, we believe that its haresmany of the characteristics of these traditional public for a that uniquely promote First Amendment values and accordingly warrant application of stricts crutiny to any content-base drestriction on speech in these for a. Regulation of speech in streets, sidewalks, and parks is subject to the highest scrutiny not simply by virtue of history and tradition, but also because the speech facilitating character of sidewalks and parks makes them distinctly deserving of First Amendment protection. Many of these same speech-promoting features of the traditional public for umappear in public libraries 'provision of Internetaccess.

First,publiclibraries,likesidewalksandparks,aregenerallyopentoanymember ofthepublicwhowishestoreceivethespeechthattheseforafacilitate,subjectonlyto narrowlimitations. *See Kreimer*, 958F.2dat 1260 (notingthatapubliclibrarydoesnot retainunfettereddiscretion"tochoosewhomitwillpermittoentertheLibrary,"but upholdingthelibrary'srighttoexcludepatronswhoharasspatronsorwhoseoffensive personalhygieneprecludesthelibrary'susebyotherpatrons) .Moreover, liketraditional publicfora,publiclibrariesarefundedbytaxpayersandthereforedonotchargemembers ofthepubliceachtimetheyusetheforum.Theonlydirectcosttolibrarypatronswho wishtoreceiveinformation,whetherviatheInternetorthelibrary'sprintcollection,is thetimespentreading.

By providing Internet access to millions of American stown om such access would

otherwisebeunavailable,publiclibrariesplayacriticalroleinbridgingthedigitaldivide separatingthosewithaccesstonewinformationtechnologiesfromthosethatlackaccess. 
Seegenerally NationalTelecommunicationsandInformationAdministration,U.S.

DepartmentofCommerce, FallingThroughtheNet:DefiningtheDigitalDivide (1999), 
availableat <a href="http://www.ntia.doc.gov/ntiahome/fttn99/contents.html">http://www.ntia.doc.gov/ntiahome/fttn99/contents.html</a>. Cf. Velazquez ,531

U.S.at546(invalidatingacontent-basedrestrictiononthespeechoffederallyfunded 
legalservicescorporationsandnotingthatgiventhefinancialhardshipoflegalservices 
corporations' clients, "[t]herestrictiononspeechisevenmoreproblematicbecausein 
caseswheretheattorneywithdrawsfromarepresentation, theclientisunlikelytofind 
othercounsel"). PubliclibrariesthatprovideInternetaccessgreatlyexpandthe 
educationalopportunitiesformillionsofAmericanswho, asexplainedinthemargin, 
wouldotherwisebedeprivedofthebenefitsofthisnewmedium.

Just a simportant as the openness of a forum to list eners is its openness to speakers. Parks and side walks are paradigmatic loci of First Amendment values in large part because they permit speakers to communicate with a wide audience at low cost. One can address members of the public in a park for little more than the cost of a so appoint of the public in a park for little more than the cost of a so appoint of the public in a park for little more than the cost of a so appoint of the public in a park for little more than the cost of a so appoint of the public in a park for little more than the cost of a so appoint of the public in a park for little more than the cost of a so appoint of the public in a park for little more than the cost of a so appoint of the public in a park for little more than the cost of a so appoint of the public in a park for little more than the cost of a so appoint of the public in a park for little more than the cost of a so appoint of the public in a park for little more than the cost of a so appoint of the public in a park for little more than the cost of a so appoint of the public in a park for little more than the cost of a so appoint of the public in a park for little more than the cost of a so appoint of the public in a park for little more than the cost of a so appoint of the public in a park for little more than the cost of a so appoint of the cost of a so appoint of the public in a park for little more than the cost of a so appoint of the cost of a so appoint of the cost of the co

<sup>&</sup>lt;sup>26</sup>Wehavefoundthatapproximately14.3millionAmericansaccesstheInternetata publiclibrary,andInternetaccessatpubliclibrariesismoreoftenusedbythosewith lowerincomesthanthosewithhigherincomes.Wefoundthatabout20.3%ofInternet userswithhouseholdfamilyincomeoflessthan\$15,000peryearusepubliclibrariesfor Internetaccess,andapproximately70%oflibrariesservingcommunitieswithpoverty levelsinexcessof40%receiveE-ratediscounts.ThewidespreadavailabilityofInternet accessinpubliclibrariesisdue,inpart,totheavailabilityofpublicfunding,including stateandlocalfundingandthefederalfundingprogramsregulatedbyCIPA.

and one can distribute hand bill son the side walk for little more than the cost of apen, paper, and some photocopies. See Martinv. CityofStruthers ,319U.S.141,146(1943) ("Doortodoordistributionofcircularsisessentialtothepoorlyfinancedcausesoflittle people.");LaurenceH.Tribe, AmericanConstitutionalLaw §12-24at987(2ded. 1988)("The 'public forum' doctrine holds that restrictions on speech should be subject to higher scrutiny when, all other things being equal, that speech occurs in a reasplaying avitalroleincommunication—suchasinthoseplaceshistorically associated with first amendmentactivities, such as streets, sidewalks, and parks—especially because of how indispensablecommunicationintheseplacesistopeoplewholackaccesstomore elaborate(andmorecostly)channels.");DanielA.Farber, *FreeSpeechwithout* Romance:PublicChoiceandtheFirstAmendment ,105Harv.L.Rev.554,574n.86 (1991)(notingthattraditional public for a "are often the only place where less affluent The groupsandindividualscaneffectivelyexpresstheirmessage");HarryKalven,Jr., ConceptofthePublicForum: Coxv.Louisiana,1965Sup.Ct.Rev.1,30("[T]he parade, the picket, the leaflet, the sound truck, have been the media of communication exploited by those with little access to the more genteel means of communication.").

Similarly, given the existence of message boards and free Webhosting services, a speaker can, via the Internet, address the public, including patrons of public libraries, for little more than the cost of Internet access. As the Supreme Court explained in *Renov*. *ACLU*, 521U.S.844(1997), "the Internet can hardly be considered a 'scarce' expressive

commodity. It provides relatively unlimited, low-cost capacity for communication of all kinds." *Id.* at 870. Although the cost of a home computer and Internet access considerably exceeds the cost of a soap box or a few hundred photocopies, speakers wishing to avail themselves of the Internet may gain free accessins chools, work places, or the public library. As Professor Lessighas explained:

The "press" in 1791 was not the *New York Times* or the *Wall Street Journal*. It did not comprise large organizations of private interests, with millions of readers associated with each organization. Rather, the press then was much like the Internet today. The cost of a printing press was low, the readership was slight, and anyone (with in reason) could be come a publisher—and in fact an extraordinary number did. When the Constitutions peaks of the "press," the architecture it has in mind is the architecture of the Internet.

LawrenceLessig, Code183(1999).

Whilepubliclibraries' provision of Internetaccess shares many of the speech-promoting qualities of traditional public for a, it also facilitates speech in ways that traditional public for a cannot. <sup>27</sup> In particular, whereas the architecture of real space

<sup>&</sup>lt;sup>27</sup>WeacknowledgethattraditionalpublicforahavecharacteristicsthatpromoteFirst AmendmentvaluesinwaysthattheprovisionofInternetaccessinpubliclibrariesdoes not.Forexample,asignificantvirtueoftraditionalpublicforaistheirfacilitationofface-to-facecommunication. "Inaface-to-faceencounterthereisagreateropportunityforthe exchangeofideasandthepropagationofviews...." *Cornelius*,473U.S.at798.Face-to-faceexchangesalsopermitspeakerstoconfrontlistenerswhowouldotherwisenot activelyseekouttheinformationthatthespeakerhastooffer.Incontrast,theInternet operateslargelybyprovidingindividualswithonlythatinformationthattheyactively seekout.AlthoughtheInternetdoesnotpermitface-to-facecommunicationinthesame waythattraditionalpublicforado,theInternet,asamediumofexpression,is significantlymoreinteractivethanthebroadcastmediaandthepress."[T]heWebmakes itpossibletoestablishtwo-waylinkageswithpotentialsympathizers.Unlikethe unidirectionalnatureofmostmassmedia,websites,bulletinboards,chatrooms,andemail

limitstheaudienceofapamphleteerorsoapboxoratortopeoplewithinthespeaker's immediatevicinity,theInternetrendersthegeographyofspeakerandlistenerirrelevant:

Through the use of chatrooms, any person with a phone line can be come a town crier with a voice that resonates farther than it could from any so appox. Through the use of Webpages, mail exploders, and news groups, the same individual can be come a pamphle teer.

*Reno*,521U.S.at870.ByprovidingpatronswithInternetaccess,publiclibrariesin effectopentheirdoorstoanunlimitednumberofpotentialspeakersaroundtheworld, invitingthespeechofanymemberofthepublicwhowishestocommunicatewithlibrary patronsviatheInternet.

Duetothelowcostsforspeakersandtheirrelevanceofgeography,thevolumeof speechavailabletolibrarypatronsontheInternetisenormousandfarexceedsthe volumeofspeechavailabletoaudiencesintraditionalpublicfora. See id.at868 (referringto"thevastdemocraticforumsoftheInternet").Indeed,asnotedinour findingsoffact,theWebisestimatedtocontainoveronebillionpages,andissaidtobe growingatarateofover1.5millionpagesperday. See id.at885(noting"[t]hedramatic expansionofthisnewmarketplaceofideas").Thisstaggeringvolumeofcontentonthe Internet"isasdiverseashumanthought," id.at870,and"isthuscomparable,fromthe reader'sviewpoint,to...avastlibraryincludingmillionsofreadilyavailableand indexedpublications," id.at853.AsaresultoftheInternet'suniquespeech-facilitating

are potentially interactive." Seth F. Kreimer, Technologies of Protest: Insurgent Social Movements and the First Amendment in the Eraof the Internet ,150 U.Pa.L.Rev. 119, 130 (2001).

qualities, "itishardtofindanaspiringsocialmovement, neworold, of left, right, or center, without awebsite, abulletinboard, and an email list." Kreimer, supran. 27, at 125. "[T] he growth of the Internet has been and continues to be phenomenal." Reno, 521 U.S. at 885.

ThisextraordinarygrowthoftheInternetillustratestheextenttowhichthe

InternetpromotesFirstAmendmentvaluesinthesamewaythatthehistoricaluseof

traditionalpublicforaforspeaking,handbilling,andprotestingtestifiestotheir

effectivenessasvehiclesforfreespeech. *Cf. Martin*,319U.S.at145("Thewidespread

useofthismethodofcommunication[door-to-doordistributionofleaflets]bymany

groupsespousingvariouscausesattestsitsmajorimportance."); *Schneiderv.State* ,308

U.S.147,164(1939)("[P]amphletshaveprovedmosteffectiveinstrumentsinthe

disseminationofopinion.").

The provision of Internetaccess in public libraries, in addition to sharing the speech-enhancing qualities of for a such as streets, sidewalks, and parks, also supplies many of the speech-enhancing properties of the postal service, which is open to the publicat large as both speakers and recipients of information, and provides a relatively low-cost means of disseminating information to a geographically dispersed audience.

See Lamontv. Postmaster Gen. ,381 U.S. 301 (1965) (invalidating a content-based prior restrain ton the use of the mails); see also Blountv. Rizzi ,400 U.S. 410 (1971) (same). Indeed, the Supreme Court's description of the postal system in Lamont seems equally

aptasadescriptionoftheInternettoday: "thepostalsystem...isnowthemainartery throughwhichthebusiness, social, and personal affairs of the people are conducted..." 381U.S. at 305n.3.

Inshort,publiclibraries,byprovidingtheirpatronswithaccesstotheInternet, havecreatedapublicforumthatprovidesanymemberofthepublicfreeaccessto informationfrommillionsofspeakersaroundtheworld. Theuniquespeech-enhancing characterofInternetuseinpubliclibrariesderivesfromtheopennessofthepublic librarytoanymemberofthepublicseekingtoreceiveinformation, and theopennessof theInternettoanymemberofthepublicwhowishestospeak. Inparticular, speakerson theInternetenjoylowbarrierstoentryandtheabilitytoreachamassaudience, unhinderedbytheconstraintsofgeography.

28 Moreover, justasthedevelopmentofnew media "presentsuniqueproblems, whichinformourassessmentoftheinterestsatstake, and which may justify restrictions that would be unacceptable in other contexts," United Statesv. Playboy Entm't Group, Inc. ,529U.S. 803,813 (2000), the development of new media, such as the Internet, also presents unique possibilities for promoting First

<sup>&</sup>lt;sup>28</sup>WeacknowledgethattheInternet'sarchitectureisahumancreation,andistherefore subjecttochange.Theforegoinganalysisoftheuniquespeech-enhancingqualitiesofthe InternetislimitedtotheInternetascurrentlyconstructed.Indeed,thecharacteristicsof theInternetthatwebelieverenderituniquelysuitedtopromoteFirstAmendmentvalues maychangeastheInternet'sarchitectureevolves. *See*LawrenceLessig, *Readingthe ConstitutioninCyberspace*,45EmoryL.J.869,888(1996)("Cyberspacehasno permanentnature,savethenatureofaplaceofunlimitedplasticity.Wedon't *find* cyberspace,webuildit."); *seealso* LawrenceLessig, *TheDeathofCyberspace*,57Wash. &LeeL.Rev.337(2000).

Amendmentvalues, which also inform our assessment of the interest satistake, and which we believe, in the context of the provision of Internet access in public libraries, justify the application of height ends crutiny to content-based restrictions that might be subject to only rational review in other contexts, such as the development of the library's print collection. *Cf. id.* at 818 ("Technology expands the capacity to choose; and it denies the potential of this revolution if we assume the Government is best positioned to make the se choices for us.").

AfaithfultranslationofFirstAmendmentvaluesfromthecontextoftraditional publicforasuchassidewalksandparkstothedistinctlynon-traditionalpublicforumof Internetaccessinpubliclibrariesrequires,inourview,thatcontent-basedrestrictionson InternetaccessinpubliclibrariesbesubjecttothesameexactingstandardsofFirst Amendmentscrutinyascontent-basedrestrictionsonspeechintraditionalpublicfora suchassidewalks,townsquares,andparks:

ThearchitectureoftheInternet,asitisrightnow,isperhapsthemost importantmodeloffreespeechsincethefounding....Twohundredyears aftertheframersratifiedtheConstitution,theNethastaughtuswhatthe FirstAmendmentmeans....Themodelforspeechthattheframers embracedwasthemodeloftheInternet–distributed,noncentralized,fully freeanddiverse.

Lessig, *Code*,at167,185.Indeed,"[m]indsarenotchangedinstreetsandparksasthey oncewere.Toanincreasingdegree,themoresignificantinterchangesofideasand shapingofpublicconsciousnessoccurinmassandelectronicmedia." *DenverArea Educ.Telecomms.Consortium,Inc.v.FCC* ,518U.S.727,802-03(1996)(Kennedy,J.,

concurringinthejudgment).

Inproviding patrons with even filtered Internetaccess, a public library is not exercising editorial discretion in selecting only speech of particular quality for inclusion in its collection, as it may down enit decides to acquire print materials. By providing its patrons with Internetaccess, public libraries create a forum in which any member of the public may receive speech from any one around the world who wishest odisseminate information over the Internet. Within this "vast democratic forum []," Reno, 521 U.S. at 868, which facilitates speech that is "as diverse a shuman thought," id. at 870, software filters single outforexclusion particular speech on the basis of its disfavored content. We hold that the secont ent-base drest rictions on patrons' access to speech are subject to stricts crutiny.

# V.ApplicationofStrictScrutiny

Havingconcludedthatstrictscrutinyappliestopubliclibraries' content-based restrictionsonpatrons' accesstospeechontheInternet, wemustnextdeterminewhether apubliclibrary' suseofInternetsoftwarefilterscansurvivestrictscrutiny. Tosurvive strictscrutiny, are strictiononspeech "mustbenarrowlytailoredtopromotea compellingGovernmentinterest. If aless restrictive alternative would serve the Government's purpose, the legislature must use that alternative." *UnitedStatesv. PlayboyEntm'tGroup,Inc.*, 529U.S. 803,813(2000) (citationomitted); *see also FabulousAssocs.,Inc.v.Pa.Pub.Util.Comm'n*, 896F.2d780,787(3dCir.1990)

(holdingthatacontent-basedburdenonspeechispermissible"onlyif[thegovernment] showsthattherestrictionservesacompellinginterestandthattherearenolessrestrictive alternatives").

The application of stricts crutiny to a public library's use of filtering products thus requires three distinctinguiries. First, we must identify those compelling government interests that the use of filterings of tware promotes. It is then necessary to analyze whether the use of software filters is narrowly tailored to further those interests. Finally, we must determine whether less restrictive alternatives exist that would promote the state interest.

#### A.StateInterests

We begin by identifying those legitimate state interests that a public library's use of software filters promotes.

# ${\bf 1. Preventing the Dissemination of Obscenity, Child Pornography, and Material \\ Harmful to Minors}$

Onitsface, CIPA is clearly intended to prevent public libraries' Internet terminals from being used to disseminate to library patrons visual depictions that are obscene, child pornography, or in the case of minors, harmful to minors. See CIPA § 1712 (codified at 20 U.S.C. § 9134(f)(1)(A)&(B)), § 1721(b) (codified at 47 U.S.C. § 254(h)(6)(B)&(C)) (requiring any library that receives E-rate discounts to certify that it is enforcing "apolicy of Internets a fety that includes the operation of a technology protection measure with respect to any of its computers with Internet access that protects against access through

such computers to visual depictions "that are "obscene" or "child pornography," and, when the computers are in use by minors, also protects against access to visual depictions that are "harmful to minors").

Thegovernment's interest in preventing the dissemination of obscenity, child pornography, or, in the case of minors, material harmful to minors, is well-established. Speech that is obscene, under the legal definition of obscenity set for thin the margin, is unprotected under the First Amendment, and accordingly the state has a compelling interest in preventing its distribution. 

29 See Millerv. California, 413 U.S. 15, 18 (1973) ("This Courth as recognized that the Stateshave a legitimate interest in prohibiting dissemination or exhibition of obscene material."); Stanleyv. Georgia, 394 U.S. 557, 563 (1969) ("[T] he First and Fourteenth Amendments recognize avalid governmental interest indealing with the problem of obscenity."); Rothv. United States, 354 U.S. 476, 485 (1957) ("We hold that obscenity is not within the area of constitutionally protected speech of press.").

TheFirstAmendmentalsopermitsthestatetoprohibitthedistributiontominors ofmaterialthat, whilenotobscenewithrespecttoadults, is obscenewithrespectto minors. *See Ginsbergv.NewYork*, 390U.S.629,637(1968)(holdingthatitis constitutionallypermissible "toaccordminorsunder17amorerestricted rightthanthat

<sup>&</sup>lt;sup>29</sup>ForFirstAmendmentpurposes,obscenityis"limitedtoworkswhich,takenasa whole,appealtotheprurientinterestinsex,whichportraysexualconductinapatently offensiveway,andwhich,takenasawhole,donothaveseriousliterary,artistic,political, orscientificvalue." *Millerv.California*,413U.S.15,24(1973).

assuredtoadultstojudgeanddetermineforthemselveswhatsexmaterialtheymayread orsee"). Proscribingthedistributionofsuchmaterialtominorsisconstitutionally justifiedbythegovernment's well-recognized interestins a feguar dingminors' well-being. See Renov. ACLU ,521U.S.844,869-70(1997)("[T]here is a compelling interestin protecting the physical and psychological well-being of minors which extend[s]to shielding them from indecent messages that are not obscene by adult standards....")(internal quotation marks and citation omitted); New Yorkv. Ferber , 458U.S.747,756-57(1982)("It is evident beyond the need for elaboration that a State's interestins a feguar ding the physical and psychological well-being of a minoris compelling.")(internal quotation marks and citation omitted); Ginsberg, 390U.S. at 640 ("The State... has an independent interest in the well-being of its youth.").

Thegovernment's compelling interest in protecting the well-being of its youth justifies laws that criminalize not only the distribution to minors of material that is harmful to minors, but also the possession and distribution of child pornography.

See Osbornev. Ohio ,495 U.S. 103,111(1990) (holding that a state "may constitutionally proscribe the possession and viewing of child pornography"); Ferber, 458 U.S. at 757,763 (noting that "[t] he prevention of sexual exploitation and abuse of children constitutes a government objective of surpassing importance, "and holding that "child pornography [is] a category of material out side the protection of the First Amendment").

Thus, apublic library's use of software filters survives stricts crutiny if it is narrowly tailored to further the state's well-recognized interest in preventing the dissemination of obscenity and child pornography, and in preventing minors from being exposed to material harmful to their well-being.

## 2.ProtectingtheUnwillingViewer

Severalofthelibrariesthatusefiltersassertthatfiltersservethelibraries'interest inpreventingpatronsfrombeingunwillinglyexposedtosexuallyexplicitspeechthatthe patronsfindoffensive. Nearlyeverylibraryprofferedbyeitherthegovernmentorthe plaintiffsreceivedcomplaints, invarying degrees of frequency, from library patrons who sawother patronsaccessing sexually explicit material on the library's Internetter minals.

Ingeneral, First Amendment juris prudence is reluctant tore cognizeale gitimate state interest in protecting the unwilling viewer from speech that is constitutionally protected. "Where the designed benefit of a content-based speech restriction is to shield the sensibilities of listeners, the general rule is that the right of expression prevails, even where no less restrictive alternative exists. We are expected to protect our own sensibilities simply by a verting our eyes. "Playboy, 529 U.S. at 813 (2000) (internal quotation marks and citation omitted); see also Erznoznik v. City of Jackson ville ,422 U.S. 205, 209 (1975) ("[W] hen the government, acting ascensor, under takes selectively to shield the public from some kinds of speech on the ground that they are more offensive than others, the First Amendment strictly limits its power.").

Forexample,in *Cohenv.California*, 403U.S.15(1971),theSupremeCourt reverseddefendant'sconvictionforwearing,inamunicipalcourthouse,ajacketbearing theinscription"FucktheDraft."TheCourtnotedthat"muchhasbeenmadeoftheclaim thatCohen'sdistastefulmodeofexpressionwasthrustuponunwillingorunsuspecting viewers,andthattheStatemightthereforelegitimatelyactasitdidinordertoprotectthe sensitivefromotherwiseunavoidableexposuretoappellant'scrudeformofprotest." at21.Thisjustificationforsuppressingspeechfailed,however,becauseit"would effectivelyempoweramajoritytosilencedissidentssimplyasamatterofpersonal predilections." *Id*.TheCourtconcludedthat"[t]hoseintheLosAngelescourthouse couldeffectivelyavoidfurtherbombardmentoftheirsensibilitiessimplybyaverting theireyes." *Id*.

Id.

Similarly,in *Erznoznik*,theCourtinvalidatedonitsfaceamunicipalordinance prohibitingdrive-inmovietheatersfromshowingfilmscontainingnudityiftheywere visiblefromapublicstreetorplace. Thecity's "primaryargument[was]thatitmay protectitscitizensagainstunwillingexposuretomaterialsthatmaybeoffensive." 422 U.S. at 208. TheCourtsoundlyrejected this interest in shielding the unwilling viewer:

Theplain, if attimes disquieting, truthis that in our pluralistics ociety, constantly proliferating new and ingenious forms of expression, we are in escapably captive audiences for many purposes. Much that we encounter of fends our esthetic, if not our political and moral, sensibilities. Nevertheless, the Constitution does not permit government to decide which types of otherwise protected speech are sufficiently offensive to require protection for the unwilling list eneror viewer. Rather, absent... narrow circumstances... the burden normally fall supon the viewer to avoid

furtherbombardmentofhissensibilitiessimplybyavertinghiseyes. 422U.S.at210-11(internalquotationmarksandcitationomitted).

The state's interest in protecting unwilling viewers from exposure to patently offensivematerialisaccountedfor,tosomedegree,byobscenitydoctrine,which "The Miller originatedinparttopermitthestatetoshieldtheunwillingviewer. standard, like its predecessors, was an accommodation between the State's interests in protectingthesensibilitiesofunwillingrecipientsfromexposuretopornographic material and the dangers of censorship inherent in unabashed ly content-based laws." Ferber, 458U.S. at 756 (internal quotation marks and citation omitted); seealso Miller, 413U.S.at18-19("ThisCourthasrecognizedthattheStateshavealegitimateinterestin prohibiting dissemination or exhibition of obscene material when the mode of disseminationcarries with ita significant danger of offending these nsi bilities of unwillingrecipientsorofexposuretojuveniles.")(citationomitted). To the extent that speechhasseriousliterary, artistic, political, orscientific value, and therefore is not obsceneunderthe Miller testofobscenity, the state's interestins hielding unwilling viewersfromsuchspeechistenuous.

Nonetheless, the Courthas recognized that incertain limited circumstances, the state has a legitimate interest in protecting the public from unwilling exposure to speech that is not obscene. This interest has justified restrictions on speech "when the speaker intrudes on the privacy of the home, or the degree of captivity makes it impractical for the property of the property of the home, or the degree of captivity makes it impractical for the property of t

theunwillingviewerorauditortoavoidexposure." *Erznoznil*,422U.S.at209(citations omitted). Thus, in *FCCv.PacificaFoundation*,438U.S.726(1978), the Courtrelied on the state 's interestinshielding viewers' sensibilities to uphold a prohibition against profanity in radio broadcasts:

Patentlyoffensive, indecent material presented over the airwaves confronts the citizen, not only in public, but also in the privacy of the home, where the individual's right to be left alone plainly out weighs the First Amendment rights of an intruder. Because the broad cast audience is constantly tuning in and out, prior warnings cannot completely protect the list eneror viewer from unexpected program content.

Id.at748(citationomitted); accord Frisbyv.Schultz ,487U.S.474,485(1988)

("Althoughinmanylocations,weexpectindividualssimplytoavoidspeechtheydonot wanttohear,thehomeisdifferent." ); seealso Lehmanv.CityofShakerHeights ,418

U.S.298,302(1974)(pluralityopinion)(upholdingacontent-basedrestrictiononthe saleofadvertisingspaceinpublictransitvehiclesandnotingthat"[t]hestreetcar audienceisacaptiveaudience").

AlthoughneithertheSupremeCourtnortheThirdCircuithasrecognizeda compellingstateinterestinshieldingthesensibilitiesofunwillingviewers,beyondlaws intendedtopreservetheprivacyofindividuals'homesortoprotectcaptiveaudiences, wedonotreadthecaselawascategoricallyforeclosingrecognition,inthepubliclibrary setting,ofthestate'sinterestinprotectingunwillingviewers. *See Pacifica*,438U.S.at 749n.27("Outsidethehome,thebalancebetweentheoffensivespeakerandthe unwillingaudiencemay *sometimes*tipinfavorofthespeaker,requiringtheoffended

listenertoturnaway.")(emphasisadded).Undercertaincircumstances,thereforea publiclibrarymighthaveacompellinginterestinprotectinglibrarypatronsandstaff fromunwillingexposuretosexuallyexplicitspeechthat,althoughnotobscene,is patentlyoffensive.

# ${\bf 3. Preventing Unlaw fulor In appropriate Conduct}$

Severalofthelibrariansprofferedbythegovernmenttestifiedthatunfiltered

Internetaccesshadledtooccurrencesofcriminalorotherwiseinappropriateconductby
librarypatrons,suchaspublicmasturbation,andharassmentoflibrarystaffandpatrons,
sometimesrisingtothelevelofphysicalassault. Asinthecasewithpatroncomplaints,
however,thegovernmentadducednoquantitativedatacomparingthefrequencyof
criminalorotherwiseinappropriatepatronconductbeforethelibrary'suseoffiltersand
afterthelibrary'suseoffilters. Thesporadicanecdotalaccountsofthegovernment's
librarywitnesseswerecounteredbyanecdotalaccountsbytheplaintiffs'library
witnesses,thatincidentsofoffensivepatronbehaviorinpubliclibrarieshavelong
predatedtheadventofInternetaccess.

Asidefromapubliclibrary's interestinpreventing patrons from using the library's Internetterminal storeceive obscenity or childpornography, which constitutes criminal conduct, we are constrained to reject any compelling state interesting ulating patrons' conduct as a justification for content-based restrictions on patrons' Internet access.

"[T]he Court's First Amendment cases draw vital distinctions between words and deeds,

betweenideasandconduct." *Ashcroft*,122S.Ct.at1403.FirstAmendment
jurisprudencemakesclearthatspeechmaynotberestrictedonthegroundthat restricting
speechwillreducecrimeorotherundesirablebehaviorthatthespeechisthoughtto
cause,subjecttoonlyanarrowexceptionfor speechthat "isdirectedtoincitingor
producingimminentlawlessactionandislikelytoinciteorproducesuchaction." *Brandenburgv.Ohio* ,395U.S.444,447(1969)(percuriam) ." Themeretendencyof
speechtoencourageunlawfulactsisinsufficientreasonforbanningit." *Ashcroft*,122S.
Ct.at1403.

Outsideofthenarrow"incitement"exception,theappropriatemethodofdeterring unlawfulorotherwiseundesirablebehaviorisnottosuppressthespeechthatinduces suchbehavior,buttoattachsanctionstothebehavioritself. "Amongfreemen,the deterrentsordinarilytobeappliedtopreventcrimeareeducationandpunishmentfor violationsofthelaw,notabridgementoftherightsoffreespeech." *KingsleyInt'l PicturesCorp.v.RegentsoftheUniv.oftheStateofNewYork* ,360U.S.684,689 (1959)(quoting *Whitneyv.Cal.* ,274U.S.357,378(1927)(Brandeis,J.,concurring)); seealso Bartnickiv.Vopper ,532U.S.514,529(2001)("Thenormalmethodof deterringunlawfulconductistoimposeanappropriatepunishmentonthepersonwho engagesinit.").

## 4.Summary

Insum, were ject apublic library's interest in preventing unlawful or otherwise

inappropriatepatronconductasabasisforrestrictingpatrons'accesstospeechonthe
Internet. The propermethod for a library to deterun law fulor in appropriate patron
conduct, such as har assmentor as sault of other patrons, is to impose sanctions on such
conduct, such as either removing the patron from the library, revoking the patron's
library privileges, or, in the appropriate case, calling the police. We believe, however,
that the state interest sin preventing the dissemination of obscenity, child pornography, or
in the case of minors, material harmful to minors, and in protecting library patrons from
being unwillingly exposed to offensive, sexually explicit material, could all justify, for
First Amendment purposes, a public library's use of Internet filters, provided that use of
such filters is narrowly tailored to further those interests, and that no less restrictive
means of promoting those interests exist. Accordingly, we turn to the narrow tailoring
question.

# **B.**NarrowTailoring

Havingidentifiedtherelevantstateintereststhatcouldjustifycontent-based restrictionsonpubliclibraries' provision of Internetaccess, we must determine whether a public library's use of software filters is narrowly tailored to further those interests. "It is not enough to show that the Government's ends are compelling; the means must be carefully tailored to achieve those ends." Sable Communications of Cal., Inc. v. FCC 492U.S.115,126(1989). "[M] an if estimprecision of [a] ban... reveals that its proscription is not sufficiently tailored to the harms it seeks to prevent to justify...

substantialinterferencewith...speech." FCC v. LeagueofWomenVotersofCal. ,468 U.S.364,392(1984).

Thecommerciallyavailablefiltersonwhichevidencewaspresentedattrialall blockmanythousandsofWebpagesthatareclearlynotharmfultominors, and many thousandsmorepagesthat, while possibly harmful to minors, are neither obscene nor childpornography. See supra, Subsection II. E. 7. Eventhedefendants' own expert, after analyzingfilteringproducts' performance in public libraries, concluded that of the blockedWebpagestowhichlibrarypatronssoughtaccess,between 6% and 15% contained no content that meets even the filtering products' own definitions of sexually explicitcontent, letalonethelegal definitions of obscenity or childpornography, which noneofthefilteringcompaniesthatwerestudieduseasthebasisfortheirblocking decisions. Moreover, in light of the flaws in the sestudies, discussed in detail in our findingsoffactabove, these percentages significantly underestimate the amount of speechthatfilterserroneouslyblock, and at best provide arough lower bound on the filters' rates of overblocking. Given the substantial amount of constitutionally protected speechblockedbythefiltersstudied, we conclude that use of such filters is not narrowly tailoredwithrespecttothegovernment's interesting reventing the dissemination of obscenity, childpornography, and material harmful tominors.

Tobesure, the quantitative estimates of the rates of overblocking applyonly to those four commercially available filters analyzed by plaintiffs' and defendants' expert

witnesses.Nonetheless, giventheinherentlimitations in the current state of the art of automated classification systems, and the limits of human review in relation to the size, rate of growth, and rate of change of the Web, there is a trade off between under blocking and overblocking that is inherent in any filtering technology, as our findings of fact have demonstrated. We credit the testimony of plaintiffs' expert witness, Dr. Geoffrey Nunberg, that no software exists that can automatically distinguish visual depictions that are obscene, childpornography, or harmful to minors, from those that are not. Nor can software, through keyword analysis or more sophisticated techniques, consistently distinguish we by a gest hat contains uch content from we by a gest hat do not.

InlightoftheabsenceofanyautomatedmethodofclassifyingWebpages, filteringcompaniesareleftwiththeSisypheantaskofusinghumanreviewtoidentify, fromamongtheapproximatelytwobillionwebpagesthatexist,the1.5millionnewpages thatarecreateddaily,andthemanythousandsofpageswhosecontentchangesfromday today,thoseparticularwebpagestobeblocked.TocopewiththeWeb'sextraordinary size,rateofgrowth,andrateofchange,filteringcompaniesthatrelysolelyonhuman reviewtoblockaccesstomaterialfallingwithintheircategorydefinitionsmustusea varietyoftechniquesthatwillnecessarilyintroducesubstantialamountsofoverblocking. ThesetechniquesincludeblockingeverypageofaWebsitethatcontainsonlysome contentfallingwithinthefilteringcompanies'categorydefinitions,blockingeveryWeb sitethatsharesanIP-addresswithaWebsitewhosecontentfallswithinthecategory

definitions, blocking "loopholesites," such as an onymizers, cachesites, and translation sites, and allocating staffres our cestoreviewing content of uncategorized pages rather than re-reviewing pages, domain names, or IP-addresses that have been already categorized to determine whether their content has changed. While a filtering company could choose not to use the setechniques, due to the overblocking errors they introduce, if a filtering company does not use such techniques, its filter will be in effective at blocking access to speech that falls within its category definitions.

Thus, while it would be easy to design, for example, a filter that blocks only ten Websites, all of which are either obscene, child pornography, or harmful to minors, and therefore completely avoids overblocking, such a filter clearly would not comply with CIPA, since it would fail to offer any meaning ful protection against the hundreds of thousands of Websites containing speech in these categories. As detailed in our findings of fact, any filter that blocks enough speech to protect against access to visual depictions that are obscene, child pornography, and harmful to minors, will necessarily overblock substantial amounts of speech that does not fall within these categories.

Thisfinding is supported by the government's failure to produce evidence of any filtering technology that avoids overblocking a substantial amount of protected speech. Where, as here, stricts crutiny applies to a content-based restriction on speech, the burden rests with the government to show that the restriction is narrowly tailored to serve a compelling government interest. See Playboy, 529 U.S. at 816 ("When the Government")

restrictsspeech,theGovernmentbearstheburdenofprovingtheconstitutionalityofits actions."); seealso R.A.V.v.CityofSt.Paul ,505U.S.377,382(1992)("Content-based regulationsarepresumptivelyinvalid."). Thus, it is the government's burden, in this case, to show the existence of a filtering technology that both blocks enough speech to qualify a satechnology protection measure, for purposes of CIPA, and avoid soverblocking a substantial amount of constitutionally protected speech.

Here, the government has failed to meet its burden. Indeed, as discussed in our findingsoffact, everytechnologyprotection measure used by the government's library witnessesoranalyzedbythegovernment'sexpertwitnessesblocksaccesstoasubstantial amount of speech that is constitutionally protected with respect to both adults and minors. InlightofthecreditedtestimonyofDr.Nunberg,andtheinherenttradeoffbetween overblocking and underblocking, together with the government's failure to offerevidence of any technology protection measure that avoids overblocking, weconcludethatany technologyprotectionmeasurethatblocksasufficientamountofspeechtocomplywith CIPA's requirement that it protect [] against access through such computers to visual depictionsthatare–(I)obscene;(II)childpornography;or(III)harmfultominors "will necessarilyblocksubstantialamountsofspeechthatdoesnotfallwithinthesecategories. CIPA§1712(codifiedat20U.S.C.§9134(f)(1)(A)).Hence,anypubliclibrary's use of asoftwarefilterrequiredbyCIPAwillfailtobenarrowlytailoredtothegovernment's compelling interest in preventing the dissemination, through Internet terminal sin public

libraries, of visual depictions that are obscene, childpornography, or harmful to minors.

Where,ashere,strictscrutinyapplies,thegovernmentmaynotjustifyrestrictions onconstitutionally *protected*speechonthegroundthatsuchrestrictionsarenecessaryin orderforthegovernmenteffectivelytosuppressthedisseminationofconstitutionally *unprotected*speech,suchasobscenityandchildpornography. "Theargument...that protectedspeechmaybebannedasameanstobanunprotectedspeech....turnsthe

FirstAmendmentupsidedown.TheGovernmentmaynotsuppresslawfulspeechasthe meanstosuppressunlawfulspeech." *Ashcroft*,122S.Ct.at1404.Thisrulereflectsthe judgmentthat [t]hepossibleharmtosocietyinpermittingsomeunprotectedspeechto gounpunishedisoutweighedbythepossibilitythatprotectedspeechofothersmaybe muted...." *Broadrickv.Oklahoma* ,413U.S.at612.

Thus,in *Ashcroft*,theSupremeCourtrejectedthegovernment's argumentthata statutecriminalizing the distribution of constitutionally protected "virtual" child pornography, produced through computerimaging technology without the use of real children, was necessary to further the state's interest in prosecuting the dissemination of constitutionally unprotected child pornography produced using real children, since "the possibility of producing images by using computerimaging makes it very difficult for [the government] to prosecute those who produce pornography using real children." *Ashcroft*, 122S. Ct. at 1404; *see also Stanley*, 394U.S. at 567-58 (holding that individual shave a First Amendment right to possessobs cenematerial, even though the

existence of this right makes it more difficult for the statest of urther their legitimate interest in prosecuting the distribution of obscenity). By the same to ken, even if the use of filters is effective in preventing patrons from receiving constitutionally unprotected speech, the government's interest in preventing the dissemination of such speech cannot justify the use of the technology protection measures mandated by CIPA, which necessarily block substantial amounts of constitutionally protected speech.

CIPAthusresemblestheCommunicationsDecencyAct,whichtheSupreme

Courtfaciallyinvalidatedin *Renov.ACLU* ,521U.S.844(1997) .Althoughonitsface,
theCDAsimplyrestrictedthedistributiontominorsofspeechthatwasconstitutionally
unprotectedwithrespecttominors,asapracticalmatter,givenWebsites'difficultiesin
identifyingtheagesofInternetusers,theCDAeffectivelyprohibitedthedistributionto
adultsofmaterialthatwasconstitutionallyprotectedwithrespecttoadults.

30Similarly,
althoughonitsface,CIPA,liketheCDA,requiresthesuppressionofonly

The District Court found that at the time of trial existing technology did not include any effective method for a sender to prevent minors from obtaining access to its communications on the Internet without also denying access to adults. The Court found no effective way to determine the age of auser who is accessing material through e-mail, mail exploders, news groups, or chatrooms. As a practical matter, the Court also found that it would be prohibitively expensive for noncommercial—as well as some commercial—speakers who have Websites to verify that their users are adults. These limitations must in evitably curtail as ignificant amount of adult communication on the Internet.

Reno,521U.S.at876-77(citationomitted).

<sup>&</sup>lt;sup>30</sup>TheSupremeCourtin *Reno*explained:

constitutionallyunprotectedspeech, it is impossible as a practical matter, given the state of the art of filtering technology, for a public library to comply with CIPA without also blocking significant amounts of constitutionally protected speech. We therefore hold that a library's use of a technology protection measurer equired by CIPA is not narrowly tailored to the government's legitimate interest in preventing the dissemination of visual depictions that are obscene, child pornography, or in the case of minors, harmful to minors.

Forthesamereasonthatapubliclibrary'suseofsoftwarefiltersisnotnarrowly tailoredtofurtherthelibrary'sinterestinpreventingitscomputersfrombeingusedto disseminatevisualdepictionsthatareobscene,childpornography,andharmfulto minors,apubliclibrary'suseofsoftwarefiltersisnotnarrowlytailoredtofurtherthe library'sinterestinprotectingpatronsfrombeingunwillinglyexposedtooffensive, sexuallyexplicitmaterial. Asdiscussedinourfindingsoffact,thefiltersrequiredby CIPAblocksubstantialnumbersofWebsitesthateventhemostpuritanicalpublic librarypatronwouldnotfindoffensive,suchas <a href="http://federo.com">http://federo.com</a>, a Websitethat promotesfederalisminUganda,whichN2H2blockedas"AdultsOnly,Pornography," and <a href="http://www.vvm.com/~bond/home.htm">http://www.vvm.com/~bond/home.htm</a>,asiteforaspiringdentists,whichwas blockedbyCyberpatrolas"Adult/SexuallyExplicit."Welistmanymoresuchexamples inourfindingsoffact, <a href="mailto:see supra">see supra</a>,andfindthatsucherroneouslyblockedsitesnumberin atleastthethousands.

Althoughwehavefoundlargeamountsofoverblocking, evenifonly asmall percentage of sites blocked are erroneously blocked, either with respect to the state's interest in preventing adults from viewing material that is obscene or child pornography and in preventing minors from viewing material that is harmful to minors, or with respect to the state's interest in preventing library patrons generally from being unwillingly exposed to offensive, sexually explicit material, this imprecision is fatal under the First Amendment. Cf. Reno, 521 U.S. at 874 ("[T]he CDA lacks the precision that the First Amendment requires when a statute regulates the content of speech."); League of Women Voters, 468 U.S. at 398 ("[E] venif some of the hazard sat which [the challenged provision] was a imedare sufficiently substantial, the restriction is not crafted with sufficient precision to remedy those dangers that may exist to justify the significant a bridgement of speech worked by the provision's broad ban....").

WhiletheFirstAmendmentdoesnotdemandperfectionwhenthegovernment restrictsspeechinordertoadvanceacompellinginterest,thesubstantialamountsof erroneousblockinginherentinthetechnologyprotectionmeasuresmandatedbyCIPA aremorethansimply deminimis instancesofhumanerror. "Thelinebetweenspeech unconditionallyguaranteedandspeechwhichmaylegitimatelyberegulated,suppressed, orpunishedisfinelydrawn. Errorinmarkingthatlineexactsanextraordinarycost." Playboy, 529U.S. at 817 (internal quotationmarksandcitationomitted). Indeed, "precisionofregulationmust bethetouch stone in an areasoclosely touching our most

preciousfreedoms." Keyishianv.Bd.ofRegentsoftheUniv.oftheStateofN.Y. ,385

U.S.589,603(1967)(internalquotationmarksandcitationomitted); seealso Bantam

Books,Inc.v.Sullivan ,372U.S.58,66(1963)("Theseparationoflegitimatefrom

illegitimatespeechcallsforsensitivetools.")(internalquotationmarksandcitation

omitted).Wherethegovernmentdrawscontent-basedrestrictionsonspeechinorderto

advanceacompellinggovernmentinterest,theFirstAmendmentdemandstheprecision

ofascalpel,notasledgehammer.Webelievethatapubliclibrary'suseofthe

technologyprotectionmeasuresmandatedbyCIPAisnotnarrowlytailoredtofurtherthe

governmentalinterestsatstake.

Althoughthestrengthofdifferentlibraries'interestsinblockingcertainformsof speechmayvaryfromlibrarytolibrary, depending on the frequency and severity of problems experienced by each particular library, we conclude, based on our findings of fact, that any public library's use of a filtering product mandated by CIPA will necessarily fail to be narrowly tail or ed to address the library's legitimate interests.

Because it is impossible for a public library to comply with CIPA without blocking substantial amounts of speech whose suppressions erves no legitimate state interest, we therefore hold that CIPA is facially invalid, even under the more stringent standard of facial invalidity urged on us by the government, which would require upholding CIPA if it it is possible for just a single library to comply with CIPA's conditions without violating the First Amendment. See supra Part III.

#### **C.LessRestrictiveAlternatives**

The constitutional infirmity of a public library's use of software filters is evidenced not only by the absence of narrow tailoring, but also by the existence of less restrictive alternatives that further the government's legitimate interests. See Playboy, 529U.S. at 813 ("If a less restrictive alternative would serve the Government's purpose, the legislature must use that alternative."); Sable, 492U.S. at 126 ("The Government may... regulate the content of constitutionally protected speech in order to promote a compelling interestifit chooses the least restrictive means to further the articulated interest.").

Asisthecasewiththenarrowtailoringrequirement, the government bears the burden of proof in showing the ineffectiveness of less restrictive alternatives. "When a plausible, less restrictive alternative is offered to a content-based speech restriction, it is the Government's obligation to prove that the alternative will be ineffective to a chieve its goals." Playboy, 529 U.S. at 816; see also Reno, 521 U.S. at 879 ("The breadth of this content-based restriction of speech imposes an especially heavy burden on the Government to explain why aless restrictive provision would not be a seffective...."); Fabulous Assocs., Inc. v. Pa. Pub. Util. Comm'n ,896F. 2d780,787 (3dCir. 1990) ("We focus... on the more difficult question whether the Commonwealth has borne it she avy burden of demonstrating that the compelling state interest could not be served by restrictions that are less in trusive on protected forms of expression.") (internal quotation

marksandcitationomitted).

Wefindthatthereareplausible, less restrictive alternatives to the use of software filters that would serve the government's interest in preventing the dissemination of obscenity and child pornography to library patrons. In particular, public libraries can adopt Internet use policies that make clear to patrons that the library's Internet terminals may not be used to access illegal content. Libraries can ensure that their patrons are aware of such policies by posting the min prominent places in the library, requiring patrons to sign forms agreeing to comply with the policy before the library is sueslibrary cards to patrons, and by presenting patrons, when they logon to one of the library's Internet terminals, with ascreen that requires the user to agree to comply with the library's policy before allowing the user access to the Internet.

Libraries candetect violations of their Internetuse policies either through direct observation or through review of the library's Internetuse logs. In some cases, library staffor patrons may directly observe a patronaccessing obscenity and child pornography. Libraries' Internetuse logs, however, also provide libraries with a means of detecting violations of their Internetuse policies. The selogs, which can be kept regardless whether a library uses filterings of tware, record the URL of every Webpage accessed by patrons. Although or dinarily the logs do not link particular URLs with particular patrons, it is possible, using access logs, to identify the patron who viewed the Webpage corresponding to a particular URL, if library staff discover in the access logs the URL of

aWebpagecontainingobscenityorchildpornography. Forexample,DavidBiek, DirectorofTacomaPublicLibrary'smainbranch,testifiedthatinthecourseofscanning Internetuselogshehasfoundwhatlookedlikeattemptstoaccesschildpornography, notwithstandingthefactthatTacomausesWebsensefilteringsoftware.Intwocases,he communicatedhisfindingstolawenforcementandturnedoverthelogstolaw enforcementinresponsetoasubpoena.

Onceaviolationofalibrary's Internetusepolicy is detected through the methods described above, alibrary may either is sue the patron awarning, revoke the patron's Internet privileges, or notify lawen forcement, if the library believes that the patron violated either state obscenity laws or child pornography laws. Although the semethods of detecting use of library computers to accessillegal contentare not perfect, and a library, out of respect for patrons' privacy, may choose not to adopt such policies, the government has failed to show that such methods are substantially less effective at

<sup>&</sup>lt;sup>31</sup>TotheextentthatfilteringsoftwareiseffectiveinidentifyingURLsofWebpages containingobscenityorchildpornography,librariesmayusefilteringsoftwareasatool foridentifyingURLsintheirInternetuselogsthatfallwithinthesecategories,without requiringpatronstousefilteringsoftware.AsthestudyofBenjaminEdelman,anexpert witnessfortheplaintiffs,demonstrates,itispossibletodevelopsoftwarethat automaticallytestsalistofURLs,suchasthelistofURLsinapubliclibrary'sInternet uselogs,todeterminewhetheranyofthoseURLswouldbeblockedbyaparticular softwarefilterasfallingwithinaparticularcategory.Alternatively,librarystaffcan reviewtheInternetuselogsbyhand,skimmingthelistofURLsforthosethatarelikely tocorrespondtoWebpagescontainingobscenityorchildpornography,asisthepractice ofTacoma'sDavidBiek,whotestifiedasagovernmentwitness.Undereithermethod, publiclibrariescanassurepatronsoftheirprivacybytracingagivenURLtoaparticular patrononlyafterdeterminingthattheURLcorrespondstoaWebsitewhosecontentis illegal.

preventingpatronsfromaccessingobscenityandchildpornographythansoftwarefilters. Asdetailedinourfindingsoffact,theunderblockingthatresultsfromthesize,rateof change,andrateofgrowthoftheInternetsignificantlyimpairsthesoftwarefiltersfrom preventingpatronsfromaccessingobscenityandchildpornography. Unlesssoftware filtersarethemselvesperfectlyeffectiveatpreventingpatronsfromaccessingobscenity andchildpornography, [i]tisnoresponsethat[alessrestrictivealternative]...maynot goperfectlyeverytime." *Playboy*,529U.S.at824; *cf. DenverAreaEduc.Telecomm. Consortium,Inc.v.FCC* ,518U.S.727,759(1996)("Noprovision...shortofan absoluteban,canoffercertainprotectionagainstassaultbyadeterminedchild.").

Thegovernmenthasnotofferedanydatacomparingthefrequencywithwhich obscenityandchildpornographyisaccessedatlibrariesthatenforcetheirInternetuse policiesthroughsoftwarefilterswiththefrequencywithwhichobscenityandchild pornographyisaccessedatpubliclibrariesthatenforcetheirInternetusepoliciesthrough methodsotherthansoftwarefilters. Althoughthegovernment's librarywitnesses offered anecdotalaccountsofareductionintheuseoflibrarycomputerstoaccessexually explicitspeechwhenfilteringsoftwarewasmandated, these anecdotalaccounts are not a substitute formore robustanalyses comparing the use of librarycomputers to access childpornographyandmaterial that meets the legal definition of obscenity in libraries that use blockings of tware and in libraries that use alternative methods. *Cf. Playboy*, 529U.S. at 822 ("[T]he Government must present more than an ecdote and

supposition.").

Weacknowledgethatsomelibrarystaffwillbeuncomfortableusingthe "tap-on-the-shoulder" methodofenforcingthelibrary's policyagainstusing Internetterminals to access obscenity and child pornography. The Green ville County Library, for example, experienced high turnover among library staff when staff were required to enforce the library's Internet use policy through the tap-on-the-shoulder technique. Given filters' in evitable under blocking, however, even a library that uses filtering will have to resort to a tap-on-the-shoulder methodofen forcement, where library staff observes a patron openly violating the library's Internet use policy, by, for example, accessing material that is obviously child pornography but that the filterings of tware failed to block. Moreover, a library employee's degree of comfort in using the tap-on-the-shoulder method will vary from employee to employee, and there is no evidence that it is impossible or prohibitively costly for public libraries to hire at least some employees who are comfortable enforcing the library's Internet use policy.

Wealsoacknowledgethatuseofatapontheshoulderdelegatestolibrarians substantialdiscretiontodeterminewhichWebsitesapatronmayview.Nonetheless,we donotbelievethatthisputative"priorrestraint"problemcanbeavoidedthroughtheuse ofsoftwarefilters,fortheyeffectivelydelegatetothefilteringcompanythesame unfettereddiscretiontodeterminewhichWebsitesapatronmayview.Moreover,as notedabove,violationsofapubliclibrary'sInternetusepolicymaybedetectednotonly

by direct observation, but also by reviewing the library's Internet use logs after the fact, which alleviates the need for library staff to directly confront patrons while they are viewing obscenity or child pornography.

Similarlessrestrictivealternativesexistforpreventingminorsfromaccessing materialharmfultominors. First, libraries may use the tap-on-the-shoulder method when minors are observed using the Internet to access material that is harmfultominors.

Requiring minors to use specific terminals, for example in a children's room, that are in direct view of library staff will increase the likelihood that library staff will detect minors' use of the Internet to access material harmfultominors. Alternatively, public libraries could require minors to use blockings of tware only if they are unaccompanied by a parent, or only if their parent consents in advance to their child's unfiltered use of the Internet. 32 "Acourt should not assume that a plausible, less restrictive alternative would be in effective; and a court should not presume parents, given full information, will fail to act." Play boy, 529 U.S. at 824.

Incontrasttothe "harmfultominors" statuteupheldin Ginsbergv. New York ,390 U.S. 629(1968), which permitted parents to determine whether to provide their children with access to material otherwise prohibited by the statute, CIPA, like the

<sup>&</sup>lt;sup>32</sup>Weneednotdecidewhethertheselessrestrictivealternativeswouldthemselvesbe constitutional. *See FabulousAssocs.,Inc.v.Pa.Pub.Util.Comm'n* ,896F.2d780,787 n.6(3dCir.1990)("Weintimatenoopinionontheconstitutionalityof[alessrestrictive alternativetothechallengedlaw]...,inasmuchasweconsidermerely[its]comparative restrictiveness....").

CommunicationsDecencyAct,whichtheCourtinvalidatedin *Reno*,containsno exceptionforparentalconsent:

[W]enotedin *Ginsberg*that "the prohibition against sales to minor sdoes not barparents who so desire from purchasing the magazines for their children." Under the CDA, by contrast, neither the parents consent—nor even their participation—in the communication would avoid the application of the statute.

Reno,521U.S.at865(citationomitted); seealso Ginsberg,390U.S.at639("Itis cardinalwithusthatthecustody,care,andnurtureofthechildresidefirstintheparents, whoseprimaryfunctionandfreedomincludepreparationforobligationsthestatecan neithersupplynorhinder."(quoting Princev.Massachusetts ,321U.S.158,166 (1944))).

The Courtin *Playboy* acknowledged that although are gime of permitting parents voluntarily to block cable channels containing sexually explicit programming might not be a completely effective alternative to the challenged law, which effectively required cable operators to transmit sexually explicit programming only during particular hours, the challenged law itself was not completely effective inserving the government's interest:

Therecanbelittledoubt, of course, that under a voluntary blocking regime, even with a dequate notice, some children will be exposed to signal bleed; and we need not discount the possibility that a graphic image could have a negative impact on a young child. It must be remembered, however, that children will be exposed to signal bleed under time channeling as well.... There cordissilent a stothecomparative effectiveness of the two alternatives.

*Playboy*,529U.S.at826. Similarly,inthiscase,thegovernmenthasofferedno evidencecomparingtheeffectivenessofblockingsoftwareandalternativemethodsused bypubliclibrariestoprotectchildrenfrommaterialharmfultominors.

Finally, there are other less restrictive alternatives to filterings of tware that further public libraries' interest in preventing patrons from unwillingly being exposed to patently offensive, sexually explicit content on the Internet. To the extent that public libraries are concerned with protecting patrons from accidentally encountering such material while using the Internet, public libraries can provide patrons with guidance in finding the material they want and avoiding unwanted material. Some public libraries also offer patrons the option of using filterings of tware, if they so desire. *Cf. Rowanv. Post Office Dept.*, 397U.S.728(1970) (upholding a federal statute permitting individual sto instruct the Postmaster General not to deliver advertisements that are "erotically arousing or sexually provocative").

Withrespecttoprotectinglibrarypatronsfromsexuallyexplicitcontentviewedby otherpatrons, public libraries have used a variety of less restrictive methods. One alternative is simply to segregate filtered from unfiltered terminals, and to place unfiltered terminals outside of patrons's ight-lines and are as of heavy traffic. Even the less restrictive alternative of allowing unfiltered access on only a single terminal, well out of the line of sight of other patrons, however, is not permitted under CIPA, which requires the use of a technology protection measure on every computer in the library.

See

CIPA§1721(b)(6)(C)(codifiedat47U.S.C.§254(h)(6)(C)),CIPA§1712(codifiedat 20U.S.C.§9134(f)(1)(A)) (requiringapubliclibraryreceivingE-ratediscountsor LSTAgrantstocertifythat it "hasinplaceapolicyofInternetsafetythatincludesthe operationofatechnologyprotectionmeasurewithrespectto anyofitscomputerswith Internetaccess..." (emphasisadded)); InreFederal-StateJointBoardonUniversal Service: Children's Internet ProtectionAct ,CCDocketNo.96-45,ReportandOrder, FCC01-120,¶30(Apr.5,2001)("CIPAmakesnodistinctionbetween computers used onlybystaffandthoseaccessible to the public.").

Alternatively, libraries can use privacy screens or recessed monitors to prevent patrons from unwillingly being exposed to material viewed by other patrons. We acknowledge that privacy screens and recessed monitors suffer from imperfections as alternative sto filtering. Both impose costs on the library, particularly recessed monitors, which, according to the government's library witnesses, are expensive. Moreover, some libraries have experienced problems with patrons attempting to remove the privacy screens. Privacy screens and recessed monitors also make it difficult for more than one person to work at the same terminal.

Theseproblems, however, are not insurmountable. While there is no doubt that privacy screens and recessed terminal simpose additional costs on libraries, the government has failed to show that the cost of privacy screens or recessed terminals is substantially greater than the cost of filterings of tware and the resources needed to

maintainsuchsoftware.Norhasthegovernmentshownthatthecostofthesealternatives issohighastomaketheiruseprohibitive.Withrespecttotheproblemofpatrons removingprivacyscreens,wefind,basedonthesuccessfuluseofprivacyscreensbythe FortVancouverRegionalLibraryandtheMultnomahCountyPublicLibrary,thatitis possibleforpubliclibrariestopreventpatronsfromremovingthescreens.Although privacyscreensmaymakeitdifficultforpatronstoworkatthesameterminalsideby sidewithotherpatronsorwithlibrarystaff,alibrarycouldprovidefilteredaccessat terminalsthatlackprivacyscreens,whenpatronswishtouseaterminalwithothers. Alternatively,alibrarycanreserveterminalsoutsideofpatrons'sightlinesforgroupsof patronswhowishunfilteredaccess.

Wethereforeconclude that the government has failed to show that the less restrictive alternatives discussed above are in effective at furthering the government's intereste ither in preventing patrons from using library computers to access visual depictions that are obscene, childpornography, or in the case of minors, harmful to minors, or in preventing library patrons from being unwillingly exposed to patently offensive, sexually explicit speech.

### **D.DoCIPA'sDisablingProvisionsCuretheDefect?**

The Governmentar guest hat even if the use of software filters mandated by CIPA blocks a substantial amount of speech whose suppressions erves no legitimatest at einterest, and therefore fails stricts crutiny's narrow tailoring requirement, CIPA's

disablingprovisionscureanylackofnarrowtailoringinherentinfilteringtechnology. The disabling provision applicable to libraries receiving LSTA grants states that "[a]n administrator, supervisor, or other authority may disable at echnology protection measure ... to enable access for bona fiderese archorother law fulpurposes." CIPA § 1712(a)(2) (codified at 20 U.S.C. § 9134(f)(3)). CIPA's disabling provision with respect to libraries receiving E-rate discounts similarly states that "[a]n administrator, supervisor, or other personauthorized by the certifying authority... may disable the technology protection measure concerned, during use by an adult, to enable access for bona fiderese archor other law fulpurpose." CIPA § 1721(b) (codified at 47 U.S.C. § 254(h)(6)(D)).

TodeterminewhetherthedisablingprovisionscureCIPA'slackofnarrow tailoring, wemustfirst determine, as a matter of statutory construction, under what circumstances the disabling provisions permit libraries to disable the software filters.

33 It is unclear to uswhether CIPA's disabling provisions permit libraries to disable the filters any time apatron wishest oaccess speech that is neither obscenity, child pornography, or in the case of a minor patron, material that is harmful to minors. Whether CIPA permits disabling in such in stances depends on the meaning of the provisions' reference to "bona fiderese archorother law fulpurpose." On the one hand, the language "to enable access"

<sup>&</sup>lt;sup>33</sup>WhereasthedisablingprovisionapplicabletolibrariesthatreceiveLSTAgrants permitsdisablingforbothadultsandminors,thedisablingprovisionapplicableto librariesthatreceiveE-ratediscountspermitsdisablingonlyduringadultuse. Thus, the disablingprovisionapplicabletolibrariesreceivingE-ratediscountscannotcure the constitutionalinfirmityofCIPA's requirement that libraries receivingE-ratediscounts uses of tware filters when their Internet terminals are in use by minors.

forbonafideresearchorotherlawfulpurpose" couldbeinterpretedtomean "toenable accesstoall constitutionally protected material." Asatextual matter, this reading of the disabling provisions is plausible. If a patronseeks access to speech that is constitutionally protected, then it is reasonable to conclude that the patron has a "lawful purpose," since the dissemination and receipt of constitutionally protected speech cannot be made unlawful.

Moreover, since an arrower construction of the disabling provision creates more constitutional problems than a construction of the disabling provisions that permits access toallconstitutionallyprotectedspeech,thebroaderinterpretationispreferable."[I]fan otherwiseacceptableconstruction of a statute would raise serious constitutional problems, andwhereanalternativeinterpretation of the statute is fairly possible, we are obligated to constructhestatutetoavoidsuchproblems." INSv.St.Cyr ,121S.Ct.2271,2279(2001) (internal quotation marks and citation somitted). Ontheotherhand, interpreting CIPA's disablingprovisionstopermitdisablingforaccesstoallconstitutionallyprotectedspeech presentsseveralproblems. First, if "other lawful purpose" means "forthepurpose of accessing constitutionally protected speech," then this reading renders superfluous CIPA's reference to "bonafideresearch," which clearly contemplates some purpose beyondsimplyaccessingconstitutionallyprotectedspeech. Ingeneral, "courts should disfavorinterpretationsofstatutesthatrenderlanguagesuperfluous." Conn.Nat'lBankv. Germain,503U.S.249,253(1992).

Furthermore, Congressisclearly capable of explicitly specifying categories of constitutionally unprotected speech, a sit did when it drafted CIPA to require funding recipients to use technology protection measures that protect against visual depictions that are "obscene," "child pornography," or, in the case of minors, "harmful to minors." CIPA § 1712(a) (codified at 20 U.S.C. § 9134(f)(1)(A)(i)(I)-(III)); CIPA § 1721(b) (codified at 47 U.S.C. § 254(h)(6)(B)(i)(I)-(III)) . If Congressint ended CIPA's disabling provisions simply to permit libraries to disable the filters to allow access to speech falling outside of the secategories, Congress could have drafted the disabling provisions with greater precision, expressly permitting libraries to disable the filters "to enable access for any material that is no to be scene, child pornography, or in the case of minors, harmful to minors, "rather than" to enable access for bona fiderese archorother law ful purposes," which is the language that Congress actually chose.

Atbottom,however,weneednotdefinitivelyconstrueCIPA's disabling provisions, since itsuffices in this case to assume without deciding that the disabling provisions permit libraries to allow a patronaccess to any speech that is constitutionally protected with respect to that patron. Although this interpretation raises fewer constitutional problems than an arrower interpretation, this interpretation of the disabling provisions nonetheless fails to cure CIPA's lack of narrow tailoring. Even if the disabling provisions permit public libraries to allow patrons to access speech that is constitutionally protected yeter rone ously blocked by the software filters, the requirement

thatlibrarypatronsaskastateactor'spermissiontoaccessdisfavoredcontentviolatesthe FirstAmendment.

The Supreme Courthas made clear that content-based restrictions that require recipients to identify themselves before being granted access to disfavored speech are subject to no less scrutiny than outright bans on access to such speech. In Lamont v. Postmaster General, 381 U.S. 301 (1965), for example, the Courtheld that a federal statuter equiring the Postmaster General to halt delivery of communist propagand a unless the addressee affirmatively requested the material violated the First Amendment:

Werestonthenarrowgroundthattheaddresseeinordertoreceivehismail mustrequestinwritingthatitbedelivered. This amounts in our judgment to an unconstitutional abridgment of the addressee's First Amendment rights. The addressee carries an affirmative obligation which we do not think the Government may impose on him. This requirement is almost certain to have a deterrent effect, especially as respects those who have sensitive positions.

*Id*.at307.

Similarly,in *DenverAreaEducationalTelecommunicationsConsortium,Inc.v.*FCC,518U.S.727(1996),theCourtheldunconstitutionalafederallawrequiringcable operatorstoallowaccesstopatentlyoffensive,sexuallyexplicitprogrammingonlyto thosesubscriberswhorequestedaccesstotheprogramminginadvanceandinwriting.

Id.at732-33.Asin *Lamont*,theCourtin *Denver*reasonedthatthiscontent-based restrictiononrecipients'accesstospeechwouldhaveanimpermissiblechillingeffect:

"[T]hewrittennoticerequirementwill...restrictviewingbysubscriberswhofearfor

theirreputationsshouldtheoperator, advertently or in advertently, disclose the list of those who wish to watch the 'patently of fensive' channel." *Id.* at 754; *see also Fabulous Assocs., Inc. v. Pa. Pub. Util. Comm'n*, 896F.2d780,785(3dCir. 1990) (considering the constitutionality of a state law requiring telephone users who wish to listento sexually explicit telephone messages to apply for an access code to receive such messages, and invalidating the law on the ground that "[a] nidentification requirement exerts an inhibitory effect").

WebelievethatCIPA's disabling provisions suffer from the same flaws as the restrictions on speechin Lamont, Denver, and Fabulous Associates. By requiring library patrons affirmatively to request permission to access certain speech single dout on the basis of its content, CIPA will deterpatrons from requesting that a library disable filters to allow the patron to access speech that is constitutionally protected, yet sensitive in nature. As we explain above, we find that library patrons will be reluct antandhence unlikely to ask permission to access, for example, erroneously blocked Websites containing information about sexually transmitted diseases, sexual identity, certain medical conditions, and avariety of other topics. As discussed in our findings of fact, software filters block access to a wide range of constitutionally protected speech, including Websites containing information that individuals are likely to wish to access a nonymously.

ThatlibrarypatronswillbedeterredfromaskingpermissiontoaccessWebsites

containingcertainkindsofcontentisevidentasamatterofcommonsenseaswellas amplyborneoutbythetrialrecord.PlaintiffEmmalynRood,whousedtheInternetata public library to research information relating to her sexual identity, testifiedthatshe wouldhavebeenunwillingasayoungteentoaskalibrariantodisablefilteringsoftware sothatshecouldviewmaterialsconcerninggayandlesbianissues. <sup>34</sup>Similarly, plaintiff MarkBrownstatedthathewouldhavebeentooembarrassedtoaskalibrariantodisable filteringsoftwareifithadimpededhisabilitytoresearchsurgeryoptionsforhismother <sup>35</sup>Asexplainedinourfindingsoffact, whenshewastreatedforbreastcancer. see supra atSubsectionII.D.2.b,thereluctanceofpatronstorequestpermissiontoaccessWeb sitesthatwereerroneouslyblockedisfurtherestablishedbythelownumberofpatron unblockingrequests, relative to the number of erroneously blocked Websites, in those publiclibrariesthatusesoftwarefiltersandpermitpatronstorequestaccessto incorrectlyblockedWebsites. Cf. Fabulous Assocs. ,896F.2dat786("Ontherecord

<sup>&</sup>lt;sup>34</sup> Softwarefilterssometimesincorrectlyblockaccessto, *interalia* ,Websitesdealing withissuesrelatingtosexualidentity.Forexample,the"GayandLesbianChamberof SouthernNevada," <a href="http://www.lambdalv.com">http://www.lambdalv.com</a>,"aforumforthebusinesscommunityto developrelationshipswithintheLasVegaslesbian,gaytranssexual,andbisexual community"wasblockedbyN2H2as"AdultsOnly,Pornography." Thehomepageof theLesbianandGayHavurahoftheLongBeach,CaliforniaJewishCommunityCenter, <a href="http://www.compupix.com/gay/havurah.htm">http://www.compupix.com/gay/havurah.htm</a>,wasblockedbyN2H2as"AdultsOnly, Pornography,"bySmartfilteras"Sex,"andbyWebsenseas"Sex."

<sup>&</sup>lt;sup>35</sup> AmongthetypesofWebsitesthatfilterserroneouslyblockareWebsitesdealing withhealthissues,suchastheWebsiteoftheWillis-KnightonCancerCenter,a Shreveport,Louisianacancertreatmentfacility, <a href="http://cancerftr.wkmc.com">http://cancerftr.wkmc.com</a>,whichwas blockedbyWebsenseunderthe"Sex"category .

beforeus, there is more than en ough evidence to support the district court's finding that access codes will chill the exercise of some users' right to hear protected communications.").

Tobesure, the government demonstrated that it is possible for libraries to permit patrons to request a nonymously that a particular Website be unblocked. In particular, the Tacoma Public Library has configured its computers to present patrons with the option, each time the software filter blocks their access to a Webpage, of sending an anonymous email to library staffrequesting that the page be unblocked. Moreover, a library staffmember periodically scanslogs of URLs blocked by the filters, in an effort to identifyer rone ously blocked sites, which the library will subsequently unblock. Although a public library's ability to permitan on ymous unblocking requests addresses the deterrent effect of requiring patrons to identify themselves before gaining access to a particular Website, we believe that it fails a dequately to address the overblocking problem.

Inparticular, evenallowing an onymous requests for unblocking burdens patrons' access to speech, since such requests cannot immediately be acted on. Although the Tacoma Public Library, for example, attempts to review requests for unblocking within 24 hours, requests sometimes are not reviewed for several days. And delays are inevitable in libraries with branches that lack the staffnecess ary immediately to review patron unblocking requests. Because many Internet users "surf" the Web, visiting

hundredsofWebsitesinasinglesessionandspendingonlyashortperiodoftime viewingmanyofthesites, therequirementthatapatrontakethetimetoaffirmatively requestaccesstoablockedWebsiteandthenwaitseveraldaysuntilthesiteis unblockedwill, asapractical matter, impose a significant burden on library patrons' use of the Internet. Indeed, apatron's timespent requesting access to an erroneously blocked Websiteandchecking to determine whether access was eventually granted is likely to exceed the amount of time the patron would have actually spent viewing the site, had the site not been erroneously blocked. This delay is especially burden some inview of many libraries' practice of limiting their patron stoahalf hour or an hour of Internet use per day, given the scarcity of terminal time in relation to patron demand.

TheburdenofrequiringlibrarypatronstoaskpermissiontoviewWebsites whosecontentisdisfavoredresemblestheburdenthattheSupremeCourtfound unacceptablein *Denver*, which invalidatedafederallawrequiringcablesystems operatorstoblocksubscribers' accesstochannelscontainingsexuallyexplicit programming, unless subscribers requested unblocking in advance. The Court reasoned that "[t]hese restrictions will prevent programmers from broad casting to viewers who select programs day by day (or, through 'surfing,' minute by minute)....."

\*\*Denver, 518\*\*
U.S. at 754. Similarly, in \*\*Fabulous Associates\*\*, the Third Circuit explained that alaw preventing adults from listening to sexually explicit phonemessages unless they applied in advance for access to such messages would burden adults' receipt of constitutionally

See

protectedspeech, givenconsumers' tendency to purchase such speech on impulse. Fabulous Assocs., 896F.2dat 785 (noting that officers of two companies that sellaccess to sexually explicit recorded phonemessages "testified that it is usually 'impulse callers' whout ilize these types of services, and that people will not call if they must apply for an access code").

Insum,inmanycases,aswehavenotedabove,librarypatronswhohavebeen wronglydeniedaccesstoaWebsitewilldeclinetoaskthelibrarytodisablethefiltersso thatthepatroncanaccesstheWebsite.Moreover,evenifpatronsrequestedunblocking everytimeasiteiserroneouslyblocked,andeveniflibrarystaffgrantedeverysuch request,apubliclibrary'suseofblockingsoftwarewouldstillimpermissiblyburden patrons'accesstospeechbasedonitscontent.TheFirstAmendmentjurisprudenceof theSupremeCourtandtheThirdCircuitmakesclearthatlawsimposingcontent-based burdensonaccesstospeecharenolessoffensivetotheFirstAmendmentthanlaws imposingcontent-basedprohibitionsonspeech:

Itisofnomomentthatthestatutedoesnotimposeacompleteprohibition. Thedistinctionbetweenlawsburdeningandlawsbanningspeechisbuta matterofdegree. The Government's content-based burdens must satisfy the same rigorous scrutiny as its content-based bans.... When the purpose and design of a statute is to regulate speech by reason of its content, special consideration or latitude is not afforded to the Government merely because the law can somehow be described as a burden rather than outright suppression.

*UnitedStatesv.PlayboyEntm'tGroup,Inc.* , 529U.S. 803,812,826(2000) (invalidatingafederallawrequiringcabletelevisionoperatorstolimitthetransmission

ofsexuallyexplicitprogrammingtothehoursbetween10:00p.m.and6:00a.m.); see also FabulousAssocs. ,896F.2dat785("[H]ere...thereisnooutrightprohibition of indecentcommunication. However, the First Amendment protects against government inhibition as well as prohibition.")(internal quotation marks and citation omitted).

EvenifCIPA's disabling provisions could be perfectly implemented by library staffevery time patrons request access to an errone ously blocked Website, we hold that the content-based burdenth at the library's use of software filters places on patrons' access to speech suffers from the same constitutional deficiencies as a complete ban on patrons' access to speech that was errone ously blocked by filters, since patrons will often be deterred from askingthelibrary to unblock as it eand patron requests cannot be immediately reviewed. We therefore hold that CIPA's disabling provisions fail to cure CIPA's lack of narrow tailoring.

## VI.Conclusion; Severability

Basedupontheforegoing discussion, we hold that a public library's content-based restriction on patrons' access to speech on the Internet is subject to strict scrutiny. Every iteminal ibrary's print collection has been selected because library staff, or a party to whom staff delegates the decision, deems the content to be particularly valuable. In contrast, the Internet, as a forum, is open to any member of the public to speak, and hence, even when a library provides filtered Internet access, it creates a public forum in which the vast majority of the speech has been reviewed by neither librarians nor

filtering companies. Under public for um doctrine, where the state creates such a for um open to any member of the public to speak on an unlimited number of subjects, the state 's decisions electively to exclude certain speech on the basis of its content, is subject to stricts crutiny, since such exclusions risk distorting the market place of ideas that the state has created.

Applicationofstrictscrutinytopubliclibraries' content-based restrictions on their patrons' access to the Internet finds further support in the analogy to traditional public for a, such asside walks, parks, and squares, in which content-based restrictions on speech are always subject to stricts crutiny. Like the set raditional public for a, Internet access in public libraries uniquely promotes First Amendment values, by offering low barriers to entry to speakers and listeners. The content of speech on the Internet is as diverse as human thought, and the extent to which the Internet promotes First Amendment values is evident from the sheer breadth of speech that this new mediumenables.

Tosurvivestrictscrutiny, apublic library's use of filterings of tware must be narrowly tailored to further a compelling state interest, and the remust be no less restrictive alternative that could effectively further that interest. We find that, given the crudeness of filtering technology, any technology protection measuremand at ed by CIPA will necessarily block access to a substantial amount of speech whose suppressions erves no legitimate government interest. This lack of narrow tailoring cannot be cured by CIPA's disabling provisions, because patrons will often be deterred from a sking the

library's permission to access an errone ously blocked Webpage, and an onymous requests for unblocking cannot be acted on without delaying the patron's access to the blocked Webpage, there by impermissibly burdening access to speech on the basis of its content.

Moreover, less restrictive alternatives exist to further apublic library's legitimate interests in preventing its computers from being used to access obscenity, child pornography, or in the case of minors, material harmful to minors, and in preventing patronsfrombeingunwillinglyexposedtopatentlyoffensive, sexually explicit speech. Libraries may use a variety of means to monitor their patrons' use of the Internet and imposes anctions on patrons who violate the library's Internet use policy. To protect minorsfrommaterialharmfultominors, libraries could grant minor sun filtered access onlyifaccompaniedbyaparent,oruponparentalconsent,orcouldrequireminorstouse unfiltered terminals in view of library staff. To prevent patrons from being unwillingly exposedtooffensive, sexually explicit content, libraries can offer patrons the option of usingblockingsoftware, canplace unfiltered terminal soutside of patrons's ightlines, and can use privacy screens and recessed monitors. While no ne of these less restrictive alternatives are perfect, the government has failed to show that they are significantly less effectivethanfilteringsoftware, which itselffails to block access to large amounts of speechthatfallwithinthecategoriessoughttobeblocked.

Inviewoftheseverelimitationsoffilteringtechnologyandtheexistenceofthese

less restrictive alternatives, we conclude that it is not possible for a public library to complywithCIPAwithoutblockingaverysubstantialamountofconstitutionally protected speech, inviolation of the First Amendment. Because this conclusion derives from the inherent limits of the filtering technology mandated by CIPA, it holds for any librarythatcomplies with CIPA's conditions. Hence, even under the stricter standard of facialinvalidityproposedbythegovernment, which would require us to up hold CIPA if onlyasinglelibrarycancomplywithCIPA's conditions without violating the First Amendment, we conclude that CIPA is facially invalid, since it will induce public libraries, asstateactors, toviolatethe First Amendment. Because we hold that CIPA is invalidonthesegrounds, we need not reach the plaintiffs' alternative theories that CIPA isinvalidasapriorrestraintonspeechandisunconstitutionallyvague.Norneedwe decidewhetherCIPAisinvalidbecauseitrequirespubliclibraries, as a condition on the receiptoffederalfunds, torelinquish their own First Amendmentrights to provide the publicwithunfilteredInternetaccess,atheorythatwenonethelessfeelconstrainedto discuss(atlength)inthemargin.

<sup>&</sup>lt;sup>36</sup>Althoughinlightofourdispositionoftheplaintiffs' *Dole* claim, wedonotrule uponplaintiffs' contentionthat CIPA's conditioning of funds on the installation of filtering software violates the doctrine of unconstitutional conditions, we are mindful of the need to frame the disputed legalissues and to develop a full factual record for the certain appeal to the Supreme Court. *Cf. Ashcroftv. ACLU*, 2002 U.S. LEXIS 3421 (May 13,2002) (remanding the case to the Court of Appeals to review the legal and factual bases on which the District Court granted plaintiffs' motion for a preliminary in junction aftervacating its opinion that relied on a different ground from the one sused by the District Court). Although we do not decide the plaintiffs' unconstitutional conditions claim, we think that our findings of factor public libraries, their use of the Internet, and

thetechnologicallimitationsofInternetfilteringsoftware, seesupra SubsectionsII.D-E, andourframingofthelegalissuehere,wouldallowtheSupremeCourttodecidethe issueifitdeemsitnecessarytoresolvethiscase.

Thedoctrineofunconstitutionalconditions "holdsthatthegovernment maynot denyabenefittoapersononabasisthatinfringeshisconstitutionallyprotected... freedomofspeech' evenifhehasnoentitlementtothatbenefit." Bd.ofCountyComm'rs v.Umbehr,518U.S.668,674(1996)(quoting Perryv.Sindermann,408U.S.593,597 (1972)).Inthiscase,theplaintiffsarguethatCIPAimposesanunconstitutionalcondition onlibraries who receive E-rate and LSTA subsidies by requiring them, as a condition on their receipt of federal funds, to surrender their First Amendment right to provide the public with access to constitutionally protected speech. Under this theory, even if it does not violate the First Amendment for a public library to use filterings of tware, it none the less violates the First Amendment for the federal government to require public libraries to use filters as a condition of the receipt of federal funds.

The government contends that this case does not fall under the unconstitutional conditions framework because: (1) as state actors, there cipients of the funds (the public libraries) are not protected by the First Amendment, and therefore are not being asked to relinquish any constitutionally protected rights; and (2) although library patrons are undoubtedly protected by the First Amendment, they are not the funding recipients in this case, and libraries may not rely on their patrons' rights in order to state an unconstitutional conditions claim.

ItisanopenquestioninthisCircuitwhetherCongressmayviolatetheFirst Amendmentbyrestrictingthespeechofpublicentities, such as municipalities or public libraries. Theonly U.S. Supreme Courtopinion to weighin on the issue is a concurrence byJusticeStewart,joinedbyChiefJusticeBurgerandJusticeRehnquist,inwhichhe opinedthatmunicipalitiesandotherarmsofthestatearenotprotectedbytheFirst Amendmentfromgovernmentalinterferencewiththeir expression. SeeColum.Broad. Sys., Inc. v. Democratic Nat'l Comm. ,412U.S.94,139(1973)(Stewart, J., concurring) fromgovernmentalinterference; it confers no ("TheFirstAmendmentprotectsthepress analogous protection on the Government."); see also id. at 139 n. 7 ("The purpose of the FirstAmendmentistoprotectprivateexpressionandnothingintheguaranteeprecludes thegovernmentfromcontrollingitsownexpressionorthatofitsagents.")(quoting ThomasEmerson, *TheSystemofFreedomofExpression* 700(1970)(internal quotation marksomitted)). The Courthas subsequently made it clear, however, that it considers it tobeanopenquestionwhethermunicipalitiesactingintheircapacityasemployershave FirstAmendmentrights, suggesting that the question whether public entities are ever protected by the First Amendmental soremain sopen. SeeCityofMadisonJointSch. ,429U.S.167,175n.7(1976)("We Dist.No.8v.Wisc.EmploymentRelationsComm'n neednotdecidewhetheramunicipalcorporationasanemployerhasFirstAmendment

rightstoheartheviewsofitscitizensandemployees.").

SeveralcourtsofappealshavecitedJusticeStewart'sconcurrencein Columbia BroadcastingSystems andhave, with little discussion or analysis, concluded that a "government...speakerisnotitselfprotectedbythefirstamendment." WarnerCable Communications, Inc. v. CityofNiceville .911F.2d634,638(11thCir.1990); seealso NAACPv.Hunt ,891F.2d1555,1565(11thCir.1990)("[T]heFirstAmendmentprotects citizens'speechonlyfromgovernmentregulation;governmentspeechitselfisnot protectedbytheFirstAmendment."); StudentGov'tAss'nv.Bd.ofTrusteesoftheUniv. ofMass., 868F.2d473,481(1stCir.1989)(concluding that the legal services organizationrunbyastateuniversity, "asastateentity, itselfhasno First Amendment rights"); Estivernev.La.StateBarAss'n ,863F.2d371,379(5thCir.1989)(notingthat "thefirstamendmentdoesnotprotectgovernmentspeech").

WedonotthinkthatthequestionwhetherpubliclibrariesareprotectedbytheFirst Amendmentcanberesolvedassimplyasthesecasessuggest. This difficulty is demonstrated by the reasoning of the Seventh Circuitina case in which that court considered whether municipalities are protected by the First Amendment and noted that it is an open question that could plausibly be answered in the affirmative, yet declined to decide it:

Onlyafewcasesaddressthequestionwhethermunicipalitiesor otherstatesubdivisionsoragencieshaveanyFirstAmendmentrights.... Thequestionisanopenoneinthiscircuit,andwedonotconsiderthe answercompletelyfreefromdoubt.Formanypurposes,forexample diversityjurisdictionandFourteenthAmendmentliability,municipalities aretreatedbythelawasiftheywerepersons. *Monellv.Departmentof SocialServices*, 436U.S.658,690(1978); *Moorv.CountyofAlameda*,411 U.S.693,717-18(1973).Thereisatleastanargumentthatthemarketplace ofideaswouldbeundulycurtailedifmunicipalitiescouldnotfreelyexpress themselvesonmattersofpublicconcern,includingthesubsidizationof housingandthedemographicmakeupofthecommunity.

Totheextent,moreover,thatamunicipalityisthevoiceofits residents—is,indeed,amegaphoneamplifyingvoicesthatmightnot otherwisebeaudible—acurtailmentofitsrighttospeakmightbethoughta curtailmentoftheunquestionedFirstAmendmentrightsofthoseresidents. SeeMeirDan-Cohen,"FreedomsofCollectiveSpeech:ATheoryof ProtectedCommunicationsbyOrganizations,Communities,andtheState," 79Calif.L.Rev.1229,1261-63(1991); cf.StudentGovernmentAss'nv. BoardofTrustees,supra ,868F.2dat482.Thusiffederallawimposeda

fineonmunicipalities that passed resolutions condemning abortion, one mightsupposethatagenuineFirstAmendmentissuewouldbepresented. Againstthissuggestioncanbecitedthemanycaseswhichholdthat municipalitieslackstandingtoinvoketheFourteenthAmendmentagainst actions by the state. E.g., Colemanv.Miller ,307U.S.433,441(1939); Williamsv.Mayor&CityCouncilofBaltimore ,289U.S.36,40(1933); CityofEastSt.Louisv.CircuitCourtfortheTwentiethJudicialCircuit 986F.2d1142,1144(7thCir.1993).Butitisonethingtoholdthata municipalitycannotinterposetheFourteenthAmendmentbetweenitself andthestateofwhichitisthecreature, Andersonv.CityofBoston N.E.2d628,637-38(Mass.1978),appealdismissedforwantofa substantial federal question, 439U.S. 1060(1979), and another to hold that amunicipalityhasnorightsagainstthefederalgovernmentoranotherstate. TownshipofRiverValev.TownofOrangetown ,403F.2d684,686(2dCir. 1968), distinguishes between these two types of cases.

Creekv. Village of Westhaven ,80F.3d186,192-93(7thCir.1996).

WealsonotethatthereisnotextualsupportintheFirstAmendmentfor distinguishingbetween,forexample,municipalcorporations,andprivatecorporations, whichtheCourthasrecognizedhavecognizableFirstAmendmentrights. FirstNat'l BankofBostonv.Bellotti,435U.S.765,775-76(1978).Unlikeotherprovisionsinthe BillofRights,whichtheSupremeCourthasheldtobe"purelypersonal"andthus capableofbeinginvokedonlybyindividuals,theFirstAmendmentisnotphrasedin termsofwhoholdstheright,butratherwhatisprotected. Compare U.S.Const.amendV ("No person shallbeheldtoanswer...")(emphasisadded) with U.S.Const.amendI ("Congressshallmakenolaw...abridgingthefreedomofspeech,orofthepress...."); seealsoUnitedStatesv.White ,322U.S.694,698-701(1944)(holdingthattheprivilege againstself-incriminationappliesonlytonaturalpersons).

TheSupremeCourtreliedonthisdistinction(i.e.,thattheFirstAmendment protectsaclassofspeechratherthanaclassofspeakers)inasimilarcontextin *Bellotti*. There,theCourtinvalidatedaMassachusettsstatutethatprohibitedcorporationsfrom spendingmoneytoinfluenceballotinitiativesthatdidnotbeardirectlyontheir"property, businessorassets." *Id.* at768.Insoholding,theCourtrejectedtheargumentthatthe FirstAmendmentprotectsonlyanindividual'sexpression.TheCourtwrote:

The Constitution of temprotects interests broader than those of the party seeking their vindication.... The proper question therefore is not whether corporations "have" First Amendment rights and, if so, whether they are coextensive with those of natural persons. Instead, the question must be

whether[thegovernmentis]abridg[ing]expressionthattheFirst Amendmentwasmeanttoprotect.

*Id.* at776. The Court thus concluded that corporations are entitled to assert First Amendment claims as speakers, noting that "[t] he inherent worth of the speech in terms of its capacity for informing the public does not depend upon the identity of its source, whether corporation, association, union, or individual." *Id.* at 777.

Inviewoftheforegoing, the notion that public libraries may assert First Amendmentrightsforthepurposeofmakinganunconstitutionalconditionsclaimis clearlyplausible, and may well be correct. But even if it is not, we think it plausible that they could rely on their patrons' rights, even though their patrons are not the ones who are directlyreceivingthefederalfunding. Insimilar cases, the Supreme Courthas entertainedunconstitutionalconditionsclaimsbothbytheorganizationsthatreceive federalfundingandbytheirconstituents. SeeLegalServs.Corp.v.Velazquez .531U.S. 533,537(2001)("LawyersemployedbyNewYorkCityLSCgrantees,togetherwith private LSC contributors, LSC in digent clients, and various state and local public of ficialswhosegovernmentscontributetoLSCgrantees, broughtsuit...todeclaretherestriction [onLSClawyers'abilityadvocatetheamendmentofortochallengetheconstitutionality ofexistingwelfarelaw]...invalid."); Rustv.Sullivan,500U.S.173,181(1991) ("PetitionersareTitleXgranteesanddoctorswhosuperviseTitleXfundssuingon behalf of themselves and their patients.... Petitioners challenged the regulations on the groundsthat...theyviolatetheFirstandFifthAmendmentrightsofTitleXclientsand theFirstAmendmentrightsofTitleXhealthproviders."); FCCv.LeagueofWomen VotersofCal. ,468U.S.364,370n.6(1984)(reviewingaFirstAmendmentchallengeto conditions on public broadcasters' receipt of federal funds, in which the plaintiffs included not only the owner of a public television station, but also viewers of the station's programs, including the League of Women Voters, and "Congressman Henry Waxman,... .aregularlistenerandviewerofpublicbroadcasting").

ThequestionwhetherCIPA's requirement that libraries use filterings of tware constitutes an unconstitutional condition is not an easy one. The Supreme Courthasheld that it violates the First Amendment for the federal government to require public broadcasting stations that receive federal funds not to editorialize, see League of Women Voters, 468 U.S. at 366, 402; for state sto subsidize "new spaper and religious, professional, trade, and sport sjournals," but not "general interest magazines," Ark. Writers' Project, Inc. v. Ragland ,481 U.S. 221, 223 (1987); for a state university to subsidize student publications only on the condition that they do not "primarily promote [] or manifest [] aparticular belief in or about a deity or an ultimate reality," Rosenberger v. Rector & Visitors of Univ. of Va. ,515 U.S. 819,823 (1995); and for the federal government to prevent legal services providers who receive federal funds from seeking to

"amendorotherwisechallengeexistingwelfarelaw." *Velazquez*,531U.S.at537.Onthe otherhand,theSupremeCourthasheldthatitdoesnotviolatetheFirstAmendmentfor thefederalgovernmenttorequirehealthcareproviderswhoreceivefederalfundsnotto "encourage,promoteoradvocateabortionasamethodoffamilyplanning," *Rust*,500 U.S.at180;forthefederalgovernmenttosubsidizecharitableorganizationsonlyifthey donotengageinlobbyingactivity, *see Reganv.TaxationwithRepresentation* ,461U.S. 540(1983);andfortheNationalEndowmentfortheArts,inawardinggrantsonthebasis ofartisticexcellence,to"takeintoconsiderationgeneralstandardsofdecencyandrespect forthediversebeliefsandvaluesoftheAmericanPublic." *NEAv.Finley* ,524U.S.569, 572(1998).

Inlightofthefactsthatwediscussaboveregardingtheoperationofpublic libraries, and the limits of Internet filterings of tware, seesupra SectionsII.D-E,we believethattheplaintiffshaveagoodargumentthatthiscaseismoreanalogousto LeagueofWomenVoters ,ArkansasWriters'Project ,and Velazquezthanitisto Rust, Finleyand TaxationwithRepresentation .Likethelawinvalidatedin LeagueofWomen Voters, which targeted editorializing, and the law invalidated in ArkansasWriters' *Project*, which targeted general interest magazines but not "religious, professional, trade, and sports journals, "the law in this case places content-based restrictions on public libraries' possible First Amendment right to provide patrons with access to constitutionallyprotectedmaterial. See Arkansas Writers' Project ,481U.S. at 229 ("[T]hebasisonwhichArkansasdifferentiatesbetweenmagazinesisparticularly repugnanttoFirstAmendmentprinciples:amagazine'staxstatusdependsentirelyonits content. Above allelse, the First Amendment means that government has no power to restrictexpressionbecauseofitsmessage, itsideas, its subject matter, or its content.") (internal quotation marks and citation somitted); LeagueofWomenVoters ,468U.S.at 383("[T]hescopeof[thechallengedstatute's]banisdefinedsolelyonthebasisofthe contentofthesuppressedspeech."). Seegenerally Rosenberger,515U.S.at828("Itis axiomaticthatthegovernmentmaynotregulatespeechbasedonitssubstantivecontentor themessageitconveys."). Because of the technological limitations of filterings of tware describedinsuchdetailabove, Congress's requirement that public libraries use such softwareisineffectarequirementthatpubliclibrariesblockasubstantialamountof constitutionally protected speech on the basis of its content.

Plaintiffs' argumentthatthefederalgovernmentmaynotrequirepublic libraries whoreceive federal fundstorestrict the availability of constitutionally protected Web sites solely on the basis of the sites' content finds further support in the role that public libraries have traditionally served in maintaining First Amendment values. As evidenced by the many public libraries that have endorsed the Freedom to Read Statement and the Library Billof Rights, seesupra Subsection II.D.1, public libraries seemingly have adulty to challenge prevailing or tho doxy and make available to the public controversial, yet

constitutionallyprotectedmaterial, evenifitmeans drawing their eof the community. *See Bd. of Educ. v. Pico* ,457U.S.853,915(1982) (Rehnquist, J., dissenting) (noting that "public libraries" are "designed for free wheeling inquiry").

Byinterferingwithpubliclibraries' discretiontomakeavailabletopatronsaswide arangeofconstitutionallyprotectedspeechaspossible, the federal government is arguably distorting the usual functioning of public libraries as places of free wheeling inquiry. The *Velazquez* Court, in invalidating the federal government's restrictions on the ability of federally funded legal services providers to challenge the constitutionality of welfare laws, relied on the manner in which the restrictions that the federal government placed on legal services' attorneys's peech distorted the usual functioning of the judicial system:

[T]heGovernmentseekstouseanexistingmediumofexpressionandto controlit,inaclassofcases,inwayswhichdistortitsusualfunctioning.... TheFirstAmendmentforb[ids]theGovernmentfromusingtheforuminan unconventionalwaytosuppressspeechinherentinthenatureofthe medium.

531U.S.at543.Bythesametoken,CIPAarguablydistortstheusualfunctioningof publiclibrariesbothbyrequiringlibrariesto:(1)denypatronsaccesstoconstitutionally protectedspeechthatlibrarieswouldotherwiseprovidetopatrons;and(2)delegate decisionmakingtoprivatesoftwaredeveloperswhocloselyguardtheirselectioncriteria astradesecretsandwhodonotpurporttomaketheirdecisionsonthebasisofwhether theblockedWebsitesareconstitutionallyprotectedorwouldaddvaluetoapublic library'scollection.

Atallevents, CIPAclearly does not seem to serve the purpose of limiting the extent of governments peech given the extreme diversity of speech on the Internet. Nor can Congress's decision to subsidize Internet access be said to promote a government al message or constitute government alspeech, even under a generous under standing of the concept. As the Court note din *Renov. ACLU*, 521 U.S. 844 (1997), "[i] tis no exaggeration to conclude that the content on the Internet is as diverse a shuman thought." *Id.* at 852 (internal quotation marksomitted). Even with software filter sin place, the sheer breadth of speech available on the Internet defeats any claim that CIPA is intended to facilitate the dissemination of governmental speech. Like in *Velazquez*, "there is no programmatic message of the kindre cognized in *Rust* and which sufficed the reto allow the Government to specify the advice deemed necessary for its legitimate objectives." *Velazquez*, 531 U.S. at 548.

Insum, wethink that the plaint iff shave good arguments that they may assert an unconstitutional conditions claim by relying either on the public libraries' First

HavingdeterminedthatCIPAviolatestheFirstAmendment,wewouldusuallybe requiredtodeterminewhetherCIPAisseverablefromtheremainderofthestatutes governingLSTAandE-ratefunding.Neitherparty,however,hasadvancedtheargument thatCIPAisnotseverablefromtheremaindertheLibraryServicesandTechnologyAct andCommunicationsActof1934(thetwostatutesgoverningLSTAandE-ratefunding, respectively),andatallevents,wethinkthatCIPAisseverable.

"Theinquiryintowhetherastatuteisseverableisessentiallyaninquiryinto legislative intent." *Minn.v.MilleLacsBandofChippewaIndians*, 526U.S.172,191 (1999). "Unless itisevidentthatthelegislaturewouldnothaveenactedthoseprovisions whicharewithinitspower, independently of that which is not, the invalid part may be dropped if what is left is fully operative as a law." *Buckleyv.Valeo*, 424U.S.1,108 (1976) (internal quotation marks and citation omitted). There is no doubt that if we were to strike CIPA from the sections of the United States Code where it is currently codified, the remaining statutory sections, providing eligible public libraries with E-rated is counts

Amendmentrightsorontherightsoftheirpatrons. Wealsothinkthattheplaintiffshave agoodargumentthat CIPA's requirement that public libraries usefilterings of tware distorts the usual functioning of public libraries in such away that it constitutes an unconstitutional condition on the receipt of funds. We do not decide these issues, confident that our findings of fact on the functioning of public libraries, their use of the Internet, and the technological limitations of Internet filterings of tware, see supra Sections II.D-E, would allow the Supreme Court to decide the unconstitutional conditions claim if the Court deem sitne cessary.

 $and LSTA grants, would be fully operative as law. Indeed, the LSTA and E-rate\\ programs existed prior to the enactment of CIPA in substantially the same formast hey would exist we rewetost rike CIPA and leave the rest of the programs in tact.$ 

Thesecondquestion, whether Congress would in this case have chosen to repeal the LSTA and E-rates ubsidy programs in stead of continuing to fund the mifith ad known that CIPA's limitations on these programs were constitutionally invalid, is less clear. CIPA contains "separability" clauses that state that if any of its additions to the statutes governing the LSTA and E-rate programs are found to be unconstitutional, Congress intended to effect uate as much of CIPA's amendments as possible.

37 We interpret the seclauses to mean, for example, that if a court we reto find that CIPA's requirements are unconstitutional with respect to adult patrons, but permissible with respect to minors, that Congress intended to have the court effect uate only the provisions with respect to minors. These separability clauses do not speak to the situation before us, however, where we have found that CIPA is facially unconstitutional in its entirety.

Nevertheless, the government has not pointed to anything in the legislative history

<sup>&</sup>lt;sup>37</sup>CIPA§1712(a)(2)containsaprovisiontitled"Separability,"whichiscodifiedin theLibraryServicesandTechnologyAct,20U.S.C.§9134(f)(6),andprovides:"Ifany provisionofthissubsectionisheldinvalid,theremainderofthissubsectionshallnotbe affectedthereby."CIPAsection1721(e)alsocontainedasimilarprovisionthatappliedto E-ratefunding,althoughitwasnotcodifiedintheCommunicationsAct.Thatsection, alsotitled"Separability,"provided:"Ifanyprovisionofparagraph(5)or(6)ofsection 254(h)oftheCommunicationsActof1934,asamendedbythissection,ortheapplication thereoftoanypersonorcircumstanceisheldinvalid,theremainderofsuchparagraphand theapplicationofsuchparagraphtootherpersonsorcircumstancesshallnotbeaffected thereby."CIPA§1721(e).

orelsewheretosuggestthatCongressintendedtodiscontinuefundingundertheLSTA andE-rateprogramsunlessitcouldeffectuateCIPA'srestrictionsonthefunding.And Congress'sdecision,priortoCIPA'senactment,tosubsidizeInternetaccessthroughthe LSTAandE-rateprogramswithoutsuchrestrictions,counselsthatwereachtheopposite conclusion.Atbottom,wethinkthatitisunclearwhatCongress'sintentwasonthis point,andintheabsenceofsuchinformation,weexerciseapresumptioninfavorof severability. *Reganv.Time,Inc.*, 468U.S.641,653(1984)("[T]hepresumptionisin favorofseverability."); *cf.Velazquez v.LegalServs.Corp.*, 164F.3d757,773(2dCir. 1999), *aff'd* 531U.S.533(2001)(applyingapresumptioninfavorofseverabilityinthe faceofuncertaintywhetherCongressintendedtofundtheLegalServicesCorporation evenifarestrictiononthefundingwastobedeclaredinvalid).

Fortheforegoingreasons, we will enter a final judgment declaring Sections 1712(a)(2) and 1721(b) of the Children's Internet Protection Act, codified at 20 U.S.C. § 9134(f) and 47 U.S.C. § 254(h)(6), respectively, to be facially invalid under the First Amendment and permanently enjoining the defendants from enforcing those provisions.

EdwardR.Becker,ChiefCircuitJudge

## INTHEUNITEDSTATESDISTRICTCOURT FORTHEEASTERNDISTRICTOFPENNSYLVANIA

AMERICANLIBRARYASSOCIATION, : CIVILACTION

INC.,etal.

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v.

:

UNITEDSTATES, et al. : NO.01-1303

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MULTNOMAHCOUNTYPUBLIC : CIVILACTION

LIBRARY, et al.

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v.

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UNITEDSTATESOFAMERICA, et al. : NO.01-1322

## <u>ORDER</u>

 $ANDNOW, this day of May, 2002, based on the foregoing findings of {\tt the analysis} and {\tt the analysis} are {\tt the analysis} are {\tt the analysis} and {\tt the analysis} are {\tt t$ 

fact and conclusions of law, it is hereby ORDERED that:

(1) judgment is entered in favor of the plaint if sandagainst the defendants, declaring that §§ 1712(a)(2) and 1721(b) of the Children's Internet Protection Act, 20 U.S.C. §9134(f) and 47U.S.C. §254(h)(6), are facially invalid under the First Amendment to the United States Constitution; and

(2)theUnitedStates,MichaelPowell,inhisofficialcapacityasChairman oftheFederalCommunicationsCommission,theFederalCommunicationsCommission, BeverlySheppard,inherofficialcapacityasActingDirectoroftheInstituteofMuseum andLibraryServices,andtheInstituteofMuseumandLibraryServicesarepermanently enjoinedfromwithholdingfederalfundsfromanypubliclibraryforfailuretocomply with§§1712(a)(2)and1721(b)oftheChildren'sInternetProtectionAct,20U.S.C. §9134(f)and47U.S.C.§254(h)(6).

BYTHECOURT:
Ch.Cir.J.